Manufacturers' Record

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Manufacturers' Record.

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RICHARD H. EDMONDS, Editor and General Manager.

EDWARD INGLE, Managing Editor.

ALBERT PHENIS. General Staff Correspondent.

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BALTIMORE, JULY 21, 1910.

TOO BRIEF.

Writes the Contributing Editor in The Outlook:

Finally, one or two fights occurred where inding circ

"Surrounding circumstances" are always scandalous. Weather is never hot enough. Theodore, to justify such abbreviation of the garments of the English language. You should have writ-ten, "surrounding circumstances environing on all sides."

PATRIOTIC JOURNALISM.

The New York Herald is doing a splendid piece of work for the country in publishing special dispatches from all parts of the land showing that business conditions everywhere are sound. A few weeks ago, under the lead of Wall Street "bears" manipulating the stock market, there came a spirit of pessimism as to general business interests. The Herald, with its usual energy, undertook to meet this situation and to show by interviews with many of the best-posted men in the country that business is on safe lines, with no reason whatever for any halting, but that, on the contrary, we should now see a steady advance,

ENTHUSIASTIC FOR ROADS.

Wise county, Virginia, is setting a splendid example of hearty co-operation of citizens and officials in the cause of highway improvement. It proposes to spend \$700,000 in equipping itself for progress. The county board of supervisors has met a large number of citigathering came a petition to the court to order an election on September 6 on the question of an issue of bonds and an organization designed to enlist every inhabitant's interest in the undertaking. It is proposed to use the proceeds of the sale of these thousands of dollars of county bends upon a system of about 112 miles of macadam roads, taking in some of the towns and giving-the county good means of communication. The organization formed is to be a working body designed to bring all legitimate efforts to bear in promoting its excellent aim. It will seek to have every citizen a member of it. The attendance at the meeting and the unanimous enthusiasm shown promise that Wise county will be a leader in the campaign for improved highways in Virginia and the South generally.

INDUSTRIAL RICHMOND.

About the time when the Manufac TUBERS' RECORD was developing for its last week's issue the suggestion of the use at the place of production of coal, of oil or of natural gas in the development of electric energy, to be distributed for the use of industries of many kinds, plans were making in Richmond for the carrying out of that very idea at the Midlothian mines, in Chesterfield county. These mines are in the field where the first bituminous coal was mined in this country more than a century ago. They lie within twelve or fourteen miles of Richmond, and the company which has been organized by Richmond and New York interests proposes to establish close to the mouth of the mines a power-house for the generation of electricity to be transmitted to Richmond, Petersburg, Norfolk and other points. The purpose of the company is to sell power to manufacturing plants, and, in that connection, it is stated that such is the growth of manufacturing in and around Richmond that there will soon be in that city a demand for three or four times as much electric power as is now available.

The most casual observer, only pass. ing through Richmond on a railroad. cannot fail to be impressed, not only by the evidences of a wonderful industrial expansion in and near the city during the past ten years, but by the indications on many sides of the soundness of the arguments that have led to the new enterprise at Midlothian. For a while in the fourth quarter of the last century the tobacco and iron industries led in manufacturing in Richmond. But right among the ruins of the fire of 1865 a number of small industries began life, and in the past twenty-five years have become leaders of their kind. Tobacco factories and iron foundries have increased their power, but, beginning almost as adjuncts to them, many other plants have risen to greatness, notably the cedar works, the greatest in the country, if not in the world, and the locomotive works, now a branch of the

zens at the courthouse, and out of the are others. Richmond is the home city of one of the great fertilizer corporations of the country; it is one of the greatest distributors of shoes, and its meat-juice factory has made necessary a pioneer cold-storage plant and was largely responsible for the establishment in that city of a cattle market. The immense water-power of the falls of the James, once almost monopolized by great flouring mills, that sent their product to Latin-American countries, has been chained for the development of electricity for traction purposes, for lighting and for industrial power, and yet an immense amount of power still seems to be running to waste among the

> But all this power, as well as such ower as that to be generated at the Midlothian coal mines, will be needed if Richmond maintains the pace of the past ten years. Every year shows new smokestacks or new power-plants where a short while before were old fields on the outskirts of the city, now brought within the limits by annexation; localities in the heart of the city once the sites of old homesteads have become bustling business centers, and for five or six miles beyond the built-up sections development of handsome surburbs is under way.

Cheapness seems to be the exception in this new home-building, and though many of the younger industries small, they all seem to be flourishing and growing and, thereby, carrying Richmond through that healthy industrial development which has characterized the wonderful growth of New England, a development which does not make a city's life dependent upon the life of half a dozen large manufacturing undertakings, but which is consequent upon the building up of many varied industries. Richmond has grown rich, and is growing richer. Its mercantile and financial life is sturdy, but the city is growing because it is manufacturing things to sell. The pending census should make for Richmond, aside from the advantages accruing through recent annexation, an exhibit gratifying to every student of Southern advancement.

A HOOKWORM AUTHORITY?

"Dr. Rose is the leading authority on hookworm disease," says the Moutgomery Advertiser in perfect good faith, we

It refers to Wickliffe Rose, otherwise described as secretary of the Rockefeller Hookworm Commission, executive s retary of the so-called "Conference for Education in the South," the popular izing agent of the Rockefeller General Education Board, and general agent of the Peabody Board. He has just been elected head of the Peabody College for Teachers at Nashville. If any other jobs have come his way in the past five or six years they have been forgotten by We are anxious to learn, however, what medical school graduated "Dr." American Locomotive Co. But there Rose, and whether that school has been

granted the right to live by the Carnegie Professorial Pension Board.

CONSERVATION.

President Taft, on the recommendation of Secretary Ballinger, has withdrawn from entry 73,270,771 acres of the public domain. Not a bad record for "enemies of conserva-tion."—The Tribune.

A Washington dispatch says that "the sale rice of the coal land was fixed at \$80,605,666. The minimum price fixed by the law for the ame land is \$14,300.923."

Now, what may be deduced as to the effect conservation upon the price of coal? In some States there have been wailings over a revalty tax on minerals because cor of coal found the tax added to the market Nobody ever opposed conservation in In practice it seems to mean depriving ourselves for our posterity, for whom we are doing more than posterity ever can do for us. If conservation is ever to be truly popular it must in some manner operate toward cheapness. Instead of marking prices toward chapless. Instead of marking pup to the wholesaler, it must provide marking down prices to the consumer, popularity of conservation arises in part from the belief that natural resources. enefit the few rather than the many demand for conservation may be expected to wane with the discovery that making coal dearer to the wholesaler means making it still dearer to the consumer. The friends of ervation need to think more of the ulti-consumer and less of the villains who are selling coal cheaper now than they will as conservation of this sort gains headway.

The Times is quite correct. The nonutilization of natural resources, whether brought about by governmental control or otherwise, means increasing the price to the present generation for the benefit, or at least the supposed benefit, of future generations. of coal land withdrawn by the Government from the market, and thus from competitive development with privatelyowned properties, enhances the value of coal lands in the hands of private ewnership, whether individual or corporate. Every acre of timber land withdrawn from the market by the Government enhances the value of timber lands owned by private individuals, and, of course, both coal and timber will nece sarily advance in selling price, to the loss of the consumer, under such condi-

No better scheme for the enhancement in the value of mineral and timber properties owned by individuals or corporations, or for bringing about higher prices for coal and timber, could have been devised than the conservation efforts which have thus far resulted in withdrawing vast tracts of coal and timber lands from development and halting the utilization of water-powers. The non-utilization of water-powers increases the demand for coal, and thus enhances its price, while strengthening the ownership of waterpowers already developed. It is not to be supposed for a moment that the men who have carried on this great campaign of conservation have done so with any thought of increasing the wealth of the owners of coal and timber lands at the expense of the consumer, but that is one of the inevitable results.

Some phases of conservation work

are interesting and to be commended. Some of them are absurd to the extreme, and are playing into the hands of corporations and landowners rather than proving beneficial to the public. Some narrow-minded people might even suspect that many corporations had been interested in helping on the agitation in favor of conservation, for the more land that the Government can be induced to withdraw from public use, the greater is the power of those who own mineral lands and timber lands. whether they are now being developed or whether they are being held for the "unearned increment."

Of all the farces of these latter days, when farces are the rule, and when the public is being played for a sucker and ever biting freely, conservation as it has been preached is one of the most pronounced. In saying this the Manu-FACTURERS' RECORD does not for a moment suggest that there are not some kinds of conservation that are immensely valuable to the country. The betterment of our soils is one form of conservation worthy of constant emphasis, but the conservation of soils and the restoration of soils have been going on steadily for the last fifteen or twenty years under the leadership of scientific agricultural development by the agricultural colleges of the country. Scientific forestry is a phase of conservation that is very important, but progress was being made in that long before the conservation faddists of the country rode into public favor by this

The conservation of coal is going on. as it has been going on for years, by more scientific methods of coal-mining, coal-burning and the utilization of waste gases. The conservation faddists had nothing to do with this. The scientists, the engineers and the chemists connected with great mining and manufacturing enterprises have been leading the way in this direction for many

Wherever there are such vast resources as are possessed by this country, it is wise that they should be developed and utilized. It is wise that there should be the widest possible competition in the development of these resources. Every movement made by the Government to lessen the amount of mineral or timber lands open for public use or for development purposes, while temporarily conserving the particular property withdrawn, necessarily results in throwing the consumptive demand upon the properties under development, and thus enhancing their value and increasing the cost. The public-"it pays the freight."

OPPORTUNITY FOR A LEGIS-LATOR.

Mr. Hill, the well-known railroad man, familiarly called "Jim," is quoted as saying in the course of an interview upon the business outlook: "They seem to think that legislation will cure anything. At this rate it won't be long before they will say it can cure a broken

The chairman of the Great Northern is rather belated in reaching this con-Lawmaking for the cure of clusion. "lame ducks" has long been a popular remedy, although it does not always effect a cure.

But there is one important evil to which Mr. Hill's words direct attention, namely, the volume of legislation which should never have been enacted. The country is being legislated to death, or at least until it is sick. The primary

idea that caused the establishment of fixed times for legislative bodies to meet was for the purpose of affording the people frequent opportunity to obtain relief from evils which might be corrected by law. Now, it would be quite in season for them to cry out for protection against the doings of their legislatures. Almost any legislative body evidences the truth of this.

Generally speaking, the aim of each member of a legislative body, whether town or City Council, State Legislature or Congress itself, is to get some law passed to which his name shall be attached. The result of this foolish ambition we see in the bulk of nonsense which somehow gets through, consider able of it happily to be throttled by the wisdom of executives, that unfortunately does not always claim as many victims as it should. Yet if any legislator desires to attain real, unique and lasting fame, let him concentrate his energies upon an effort to remove from the statute-books all superfluous laws, including, of course, each that has be come a dead letter through having outlived its usefulness. In addition to this work he might co-operate with others to prevent the enactment of needless laws, bills for which are constantly appearing over night like weeds in a garden.

While the judicious work of a concientious member along the lines here described might not meet unqualified approval from folk like James J. Hill, who has his own ideas as to what should be on the statute-books, particularly with reference to transportation, it would merit hearty praise from the public generally, which has tired of multifarious laws and the confusion resulting therefrom. At any rate, "Jim" says: "If they will only leave us alone everything will be all right."

Maybe there is a whole lot of truth in that pithy sentence.

FARMING NEAR CITIES.

In commendation of the "farm move ment" for the Birmingham District, Mr. M. V. Richards, land and industrial agent of the Southern Railway, writes to President A. H. Ford of the Birmingham Chamber of Commerce telling some thing of his own experience and suggesting how the plan may develop. He says that within the past few weeks a colony of foreign-born people who have lived in Pennsylvania for several years have purchased farms on the Southern Railway about 20 miles north of Mobile. where it is expected there will be a settlement of from 150 to 200 farmers. Along the line between Richmond and Danville, Va., about 150 German families have settled during the past 10 years, most of them coming from the North, and some directly from Germany, Mr. Richards sees many favorable opportunities for farmers in the territory adjacent to Birmingham, and he sugmosts:

Interest the owners of lands suitable for farming purposes, situated near transpe tion facilities, in the subdivision and sale of holdings. The farms should be divided into practical-size places and offered for sale at reasonable prices and upon easy terms to bona-fide settlers. A careful study merits and possibilities of the land be made before being offered to the Plats showing the subdivisions and carefully prepared descriptions of the soil. its capabilities, cost of improvements neces sary, the price of building material, the price of farm equipment, information regarding crops and markets should be included in prospectus. These offerings should be advertised, and it would be well to interest agencies handling such properties in selling to the class of people it is desired to reach. We probably may be in position to place the

information regarding the properties when ready for sale before agents or colonizers handling foreigners. It seems to me you will meet with the best success in interesting people in the properties by placing the facts formerly from Europe now located in the co centers, such as Chicago, New York, Buffalo, Boston and Philadelphia. Heretofore the movement of these people has largely been to the Central West and the West for the reason that they found people of their own nationality in those sections. After these people are located on lands in your selt can be expected that immigrants of from Europe will be attracted to these tlements, and in time the movement of foreign immigration to the South will be fully great as it is now to the West, Northwest

These suggestions are the more practical because they come from a man who has had many years' experience in attracting settlers to several States in the South. His emphasis of the detail work necessary to make a success of the Birmingham movement is timely, and should be given all the consideration that it deserves. It may be suggested, however, that great care should be exercised in looking to the congested centers of this country for farm material. If there are farmers in such centers who desire to resume the country life they had in their native lands, and are qualified to become good citizens of Alabama, it would be well to give them attention. The Manufacturers' Recorn, though, has for several years been warning the South against giving encouragement to plans turning upon the relief of congestion in certain Eastern cities, or to immigration schemes likely to induce similar congestion in Southern cities. Bearing upon that warning is the following from the Times of Washington, D. C.:

The doors of the United States were The doors of the United States were practically closed today against Russian-Hebreu immigrants coming to this country in response to promises made by agents of American Jewish aid societies, when the Department of Commerce and Labor announced that they would be barred under the contract labor laws tract-labor laws.

It is alleged that the ald organizations, which were originally designed to divert Jewish immigrants to the sparsely-settled sections of the country and away from the Eastern cities, have developed until they in reality are labor bureaus, and conduct extensive advertising campaigns in Russia.

The decision was made in connection with the application of 280 Russian Hebrews to neer the United States at Galveston, Texas. All but 34 were admitted, those excluded being barred on the ground that they were destitute and would become public charges. It was announced, however, that the contract-labor law would be applied to all such

The Manufacturers' Record is convinced that one of the greatest drawbacks upon this country today is the provision against alien cantract labor. It believes that the regulation in that particular should be so modified as to permit representatives of State Governments to seek in foreign lands desirable additions to the labor supply of the States, the desirability implying that the newcomers shall not be likely to become at any time a burden upon the country. But the Manufactubers' Record is just as strongly in favor of the prevention of immigration under such auspices as those which are referred to in the Washington Times. It believes that about the greatest evil that can happen to the South would be extensive immigration there upon racial or religious lines. The settlers who will benefit the South and who will be benefited by the South are those who come upon an individual or a family basis prepared to become parts of the communities in which their lot may be cast. and not massed in an alien atmosphere nomic use of time. With the average

and under the guidance of alien influences.

Men interested in attracting desirable settlers should take a hint from the report that the tide of migration from the Northwest to the virgin fields of Western Canada is turning back to this The great mass of migrants have been wheat-growers able to sell their lands in this country and to buy new farms in Canada at a much lower price. They have apparently found that cheap lands, after all, are not everything to be considered in selecting new homes. Representatives of the South should get busy in the Northwest, and even in Canada, and show homeseekers that the South possesses every attraction that Canada offers, and much more besides.

COURTESY.

Mr. V. J. Albert, manager of the Postal Telegraph-Cable Co. of Baltimore, in referring to a recent editorial in the MANUFACTURERS' RECORD commending a printed card hanging in the office of the Postal Company in Atlanta urging upon employes the utmost courtesy to the public, says:

It is my opinion that more expressions of this sort made public would have a highly beneficial effect. As a usual thing courteous treatment is appreciated, but easily forgot-ten, and the employe who starts out to be courteous finds that it is no easy matter to keen his equilibrium when fully 80 p blic directs anything but a friendly of the public directs a attitude towards him.

This is another side to the question of courtesy between corporations and the public, and Mr. Albert is quite correct in his statement of the case. It is true that a great many people are not courteous to the employes of public corporations. Very many individuals on the street cars as well as on the steam railroads, very many people dealing with corporations of all kinds, expect courtesy from the employes, but fail to help to create courtesy by being courtethemselves. There is, indeed, a woful lack of courtesy in many places by many people. It ought to be remembered that courtesy begets courtesy, brusqueness begets brusqueness, anger begets anger. It is not always that the courteous man receives courteous attention: nevertheless, it is just as incumbent upon the public to be courteous to the clerk in the business or in the railroad, or to other employes with whom one comes in contact, as it is upon them to be courteous to the public. soft answer turneth away wrath." smile begets a smile. Someone has said: Smile awhile:

And while you smile another smiles, And soon there's miles and miles of smiles And life's worth while because you smile,

BUSINESS MEN AND JURIES.

When courts of the country come to be controlled by habits essential to success in ordinary business undertakings, reluctance of men of affairs to serve on juries may be expected to diminish. In different parts of the country there is almost a perennial discussion of the question of jury reform turning largely upon the character of the men selected for jury service and the increasing tendency toward deterioration in that respect. The discussion promises little practical benefit, because it is monopolized by the class of men directly responsible for the degeneration of juries the class that has been trained to the law. Their life is at the antipodes of business. Consumption of time is of more importance to them than the ecolien in-

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greater his importance and larger the prospect of his fee. The productions of his pen call for three or four times as many words as are necessary to the sense of the thought that would be conveyed. Naturally the routine of courts, controlled by lawyers, either those still in actice practice or those elevated to the bench, is lacking in the essentials of business. Where the minimum of working hours in a business house is nine hours, four hours is the maximum of the working time of the courts, as a general rule, and more time is wasted within those four hours than a business house can afford to waste within a week. Again, the courts being an important element in the political machinery of the country, are compelled to carry from two to three times as many employes as are required to do their work, and consequently additional waste of time and money is positively

When a business man is "caught on a jury"-for that is the thought of the situation that has rather logically come to describe it—he is usually, after one experience, willing to resort to any legitimate device that may enable him to escape the service thereafter. In the first place, partly because of politics, the reasons for exemption from jury service have been so multiplied that, on the one hand, a large proportion of men still liable to the service constitute the large proportion of the men who are already bearing the other civic burden-that of taxation; and, on the other hand, many of them are of a class hardly qualified to be entrusted with the important duty of juror. One result of this is that in many cases the jury is a fair embodiment of the lack of intelligence in the community. Even when an intelligent twelve happen to form a jury, its members are affronted by being obliged to submit to appeals from attorneys-at-law, not to intelligence, but to any other quality. Because they were once lawyers, judges seem to forget that a trial ought to be the opportunity for a bringing out, clear and distinct as possible, all the facts bearing upon the case in strict accord with the principles of law. Too many judges permit their courts to be in contempt by allowing the proceedings to take the direction of obscuring or confusing the facts in a case under the dominance of shysterism and chicane, none the less outrageous because perpetrated adroitly by lawyers commanding enormous fees and of "high standing" at the bar.

The natural instincts of the average American citizen is to perform cheerfully every civic duty, provided it is reasonably imposed. Tax-dodging is widespread, because administration of the taxing machinery is too frequently in the hands of incompetents; because tax-spending is either ignorantly wasteful or deliberately generous, or because tax officials incline to hold propertyowners as common thieves. So, evasion of jury service rests fundamentally upon too frequent calls upon the same persons and upon indignation at the travesties upon the administration of the law prevailing in the conduct of most courts.

Improvement in the jury service could be speedily brought about if judges and Carolinas has elected Messrs. W. H. Smith, lawyers should be eliminated from participation in the discussion, and if in every community a hundred business S. C., and Otis Green, Asheville, N. C., men who have served on juries should vice-presidents, and T. W. Dixon, Charevery community a hundred business be permitted to formulate from their lotte, N. C., secretary and treasurer.

lawyer time is money only in the sense experience a plan for the conduct of that the more time he can consume the the courts and such a plan be adopted.

IN TOUCH WITH BUSINESS.

C. W. Rainey of the National Showcase Co., Columbus, Ga., writes to the MANUFACTURERS' RECORD:

Your paper is all to the good, and we get quite a nice lot of business out of it. It puts us in touch with all new buildings all over the Southern States, and we are thereby enabled to get in touch with prospective customers who would probably never hear of the progression and of whom we would prove our concern and of whom we would never hear, and we have closed up many a nice good order simply by using the information contained in your valuable paper. We closed a \$7000 deal for fixtures about six months ago and got the information out of your paper; so you will see that we think quite a good deal of you.

THINK IT OVER.

A small pamphlet about Byromville, Ga., issued by "The Byrom Corporation," concludes with the following

If you can't get independent in the South, Dixie will feed and clothe you, for it is not your fault that you were born that way.

This is about as delicate a way of suggesting to those who cannot make a success in Dixie that they are mentally incompetent, and, therefore, to be taken care of by the State, as we have ever

WHO!

It is announced at New Orleans that "the New York Industrial Removal Office, which in a large measure is the national immigration commission of this country. has joined hands with the New Orleans Progressive Union and the Louisiana State Board of Agriculture and Immigration, and will aid this State in an effort to divert a desirable class of immigrants to come to Louisiana." Who compose the New York Industrial Removal Office, and under what authority is that rather new factor in New York philanthropy constituted "the national immigration commission of this country" in large measure?

THE COTTON MOVEMENT.

In his report for July 15 Col. Henry G. Hester, secretary of the New Orleans Cotton Exchange, shows that the amount of cotton brought into sight during 318 days of the present season was 10,181,407 bales, a decrease under the same period last year of 3,251,056 bales. The exports, less 52,-873 bales returned from abroad, were 5,883,261 bales, a decrease of 2,373,887 bales. The takings were, by Northern spinners, 2,019,826 bales, a decrease of 650,038 bales; by Southern spinners 2,210,628 bales, a decrease of 139,308 bales.

BY THE FORELOCK.

Right here and now is the time to protest against any moving-picture exhibi-tions of the fight for the presidency of the Daughters of the American Revolution.

The North Carolina Geological and Economic Survey, Dr. Joseph Hyde Pratt, State Geologist, has issued Bulletin No. 18, containing a bibliography of North Carolina geology, mineralogy and geography, by Dr. Francis Baker Laney and Katharine Hill Wood. In the preparation of this bibliography more than 200 periodicals were examined, and more than a dozen of the public and private libraries of the country. Nearly 100 pages of the 400-page publication are devoted to a list of maps of North Carolina.

The Retail Hardware Association of the Gaffney, S. C., president; A. L. Phipps, Durham, N. C.; M. Bonnoitt, Darlington,

KENTUCKY'S OOLITIC LIMESTONE.

Bowling Green, Ky., July 14. is second to none in the United States, is found in Warren county, Kentucky, and lies on both sides of the 37th parallel, north latitude, and between the 86th and 87th degrees west from Greenwich. Geologically it is found in the upper beds of the St. Louis limestone, about 50 feet below the Chester sandstone, which latter lies immediately under the great coal measures. It is a perfect limestone, for it analyzes as follows: Carobnate of lime, 95.31 per cent.; carbonate of magnesia, 1.12 per cent.; silica, 1.42 per cent.; iron and alumina, .39 per cent.; water and loss, 1.76 per cent.: total, 100 per cent. Its structure, resembling the roe of a fish, gives its name, oolitic, stone eggs. It very closely resembles the world-famous Portland stone of England, from which the more celebrated Portland cement gets its name. St. Paul's, London, as well as many historic buildings of Great Britain which have stood for ages, are built of this stone, and attest its beauty of texture as well as its ability to withstand the elements.

The first essential in a building stone is durability, then strength, ease of working. beauty of appearance, uniformity of texture, resistance to discoloration as well as to the action of fire and water.

This great deposit, which averages 12 feet in thickness and sometimes exceeds 24 feet without a seam, has a continuous outcrop in Warren county of 120 miles. There are more than 1,000,000,000 feet in sight, with less than three feet of stripping. All of this outcrop lies within a distance of two miles from the waters of Barren and Gasper rivers and the railroads that now exist and those that will be constructed in the very near future. The number of cubic feet per acre runs from 500,000 to 1,000,-000, as it ranges in thickness from 12 to 24 feet. The topography of the region is such that much of the stone can be quarried with comparatively little stripping. Its natural texture, which is quite soft, no grit, renders it very easily worked. The channeler goes through it rapidly; it is quickly split in blocks of any desired thickess, and its cost on the cars or barges is very small compared with the average building, dimension and mill blocks. It sells in all the markets of this country alongside its competitors for 10 or 15 cents per foot higher. Lack of transportation facilities in the past has been the only element that has kept it from being seen wherever durable and handsome buildings are wont to be seen. This condition will soon be a thing of the past. Strong influences are at work which will supply transportation facilities second to no stone region, and the markets of all the large cities will find that it will supply at least 50 per cent. of their wants. The quality and the quantity are here. It has been in actual use in this locality for more than threequarters of a century, and the first structure shows the material in perfect condi-tion, much whiter than when it left the quarry, with the tool marks as plainly seen as if they were made yesterday. There are ne 10 quarries more or less developed, four of them in flourishing condition; the others are rapidly coming to the front, and the confident expectation is that in less than five years there will be more than 100 doing business by the million or more feet per year and supplying thousands of persons with continous work.

This stone has been shown at all of the expositions since 1876, where it has always received awards, the latest being the Tercentenary of Jamestown. It has been again and again subjected to the most

searching practical and scientific investiga-Bowling Green colitic limestone, which tions and experiments by experts, both State and National, and the results have been uniformly favorable. As mentioned above, it has stood that severest of all tests, time, and exposure to the arctic blasts, the torrential heat and the intermediate freezings and thawings. It has been placed in contact with every species of mortar and cement, and held its own as to color. Exposure to such blasts of wind and weather as mortuary work compels has made it an aggressive rival of Southern and Eastern granites and marbles.

At the World's Fair, Chicago, 1803, samples of this stone were tested by Major J. M. Reilly, ordnance department, United States Army, with the following results: (1) Cube, 4 inches; area, 16.12 square inches; first crack, 105,300 pounds; per square inch, 6532 pounds. (2) Cube, 4 inches; area, 16.12 square inches; first crack, 112,980 pounds; per square inch, 7009 pounds. (3) Cube, 4 inches; area, 16.08 square inches; first crack, 108,480 pounds; per square inch, 6746 pounds. This shows a strength far in excess of any weight that you would reasonably expect to be imposed on any building stone of modern architecture, and much greater than that of the very best brick masonry,

It is perfectly safe to say that there is no stone in any part of the United States that can be quarried, sawed and dressed with greater ease and satisfaction than this very superior oolite. It responds readily to the chisel, and its almost perfect uniformity of structure, together with its absolute freedom from silica, admits of the finest and most delicate character of carving, as can be so readily seen in the splendid Corinthian capitals that surmount the immense columns which support the portico of the Warren county courthouse, which was erected something like half a century ago. It splits with wedges readily, not only in one, but in many directions, so that, to use the language of an expert, "a curved surface of 100 degrees can be split without risk of the line of curvature cross-

It is rare that stone as far north as latitude 37 can be quarried every day in the year, but such is only another of the many excellent features of this rarely superior stone. It is quarried, it is worked, it is cut and set equally well in winter as in summer, without the least danger of scaling from frost. There are economic reasons why this is not always done, but when cessity requires it is often done without danger of either cracking or scaling. It may be readily seen what an advantage the fortunate contractor may thus have over his less favored competitor, who may be forced to use some inferior stone similar to that which is found in portions of neighboring States-Indiana, for instance.

The various cement mortars which must frequently be used in buildings and other structures are fertile sources of most unattractive looking stains, particularly when a white or even light-colored stone is used. The close texture of this stone and its freedom from magnesium compounds renders it proof against such staining.

When ordinary stone comes in contact with the earth, as in the case of foundations for buildings, bridges and mortuary work, the contact usually results in a decided discoloration. This stone escapes this to a very great extent, perhaps less than almost any limestone known in this country. For this reason it has no competitor when used for foundations, curbing, coping and bases for monuments and all work of this vature.

It has been repeatedly tested in the se-

verest manner in the many cities in which it is found, by the alternate action of fire and water. Architects demand a stone that will not crack or scale by such action. which at the same time carries the other ssary qualities of a good stone. This stone has been subjected to repeated tests in this direction, both in burning buildings and from the result of experiments in heating a sample red hot and immediately plunging it in water, and such tests have shown that it possesses fire-resisting qualities in a pre-eminent degree

Several of the more fully developed quarries are of large extent, and practically inexhaustible. They have a very fair equipment, composed of units that may be indefinitely increased as the rapidly-increasing demand for the stone will require in the near future. This equipment consists of the latest forms and make of steam drills, derricks, channelers, hoists, gangs of saws in sets of 10 or more, planers, jointers, together with cutting sheds for finishmg, etc. While the capacity of all the combined quarries is greatly below the present demand, it is constantly and steadily increasing, and when the quarries are numbered by the hundred the capacity will be made practically unlimited. The proper facility for transportation is the one thing needful, and this is apparently in sight, certainly from one and possibly from three different sources.

The stone can be had in the form of mill blocks, rough or scabbled, scabbled bases for monumental purposes, sawed on two, four or six sides, bridge masonry, together with cut stone for buildings. While the present capacity of all the quarries is perbaps limited to less than 10 cars per day, the time is near at hand when this will be more than quadrupled, for the stone actually in sight will supply 100 cars per day for 2500 days.

The shipping weight for the thoroughly dried stone, exactly cut, is 155 pounds per cubic foot. The approximate weight for mill blocks, scabbled bases, sawed stone and cut stone varies from 155 to 185 feet. Mr. W. S. Day of the United States Geologic Survey, said in his report for 1889-90:

"The product of Warren county, Kentucky, is deserving of special notice because of its peculiarities and its value as a building stone. The stone is known commercially as Bowling Green oolite. It is quite different from the oolitic stone of Indiana, inasmuch as it belongs to another limestone group, the constituent globules being large and distinct, whereas in most of the Indiana stones they are minute. It quite similar to the Portland oolite of Ireland [he means England].

"The following analyses of Bowling Green and Portland oolite shows the similarity between the two:

Carbonate of limeCaCO	Bowling Green. Per ct. 3 95.31	
Carbonate of magnesia— MgCO ₃ Silica—SiO ₂	1.12 1.42	$\frac{1.20}{1.20}$
Fc2O ₃ -Al2O ₃ Water and loss		.50 1.94
	100.00	100.00

"The quarries are of large extent, well equipped with channeling machines, derricks, etc. A mill of 12 gangs of saws finishes the stone. Blocks of any size can be furnished. The stone is soft and easily worked, hardens on exposure to the atmosphere. Carvings made upon it stand well. Its color under the influence of sunlight tends to become continually lighter. When heated to redness on the surface and plunged into cold water it revealed no crack, even upon examination with a magnifying glass, and in some cases on being reheated for a second and third time and plunged into water still failed to present



A \$600,000 MERCANTILE BUILDING FOR DALLAS, TEXAS.

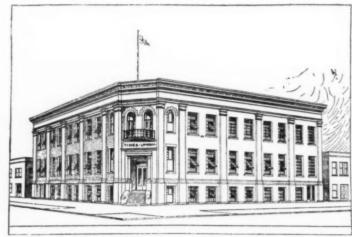
It will be erected by Butler Bros. of Chicago; structure will be eight stories high, 165 feet by 317 feet 7 inches; fireproof construction; reinforced concrete frame; architects, Mauran & Russell of St. Louis; contractor, Selden-Breck Construction Co. St. Louis

tion of this stone in the northern and eastrn portions of the country seems highly probable."

Major Arnold, ordnance department, United States Army, former commandant Columbia Arsenal, in his report to the chief of ordnance, United States Army, Savs :

"A personal examination showed the quarries near Bowling Green, Ky., to be extensive, well equipped with channeling machines, steam derricks, travelers, etc.. and a mill with 12 gangs of saws. Blocks of any size can be furnished to order; the capacity is ample. The stone is an oolitic limestone of a light grayish color; has an established reputation for its durability and ease of working, and resisting the action of the atmosphere of cities. Generally the stone at the quarry appeared to he very uniform in color and texture, and in every way desirable for building purposes." There is nothing wrong with the quality

or quantity of the stone; all that is needed are more quarries. Instead of a dozen quarries working on a comparatively small scale, there should be 100 opened up and running on a very large scale, with an output of many cars per day. Many representatives of large contracting firms from distant cities, both North and South, have recently visited these quarries, and they have invariably expressed themselves as satisfied. Within a week the largest and best-known firm of church architects in the United States has sent its representative here for a thorough investigation as to the quantity of stone and the facilities for supplying it. This representative was so well pleased that it is said his firm will write Bowling Green whitestone in all of its future specifications. The writer has recently seen an order for more than 100,-000 cubic feet of Bowling Green whitestone for St. Thomas' Church, now being erected in the city of New York, and more than and private buildings in Nashville, Louisany indications of cracking. According to 500 cars will be needed from these quarpresent indications the extended applica- ries. There is only one thing needful, and



FLORIDA TIMES-UNION BUILDING, JACKSONVILLE.

Contract awarded in June; 90x100-foot structure; fireproof; reinforced concrete, pressed brick and metal window sash; steam heat; electric and gas lighting; electric elevator; cost \$50,000; architect, J. H. W. Hawkins, Jacksonville; contractors. Lightman, McDonald & Co., Nashville, Tenn.

that is, more and better railroad facilities extent of its thickness. All of this may be for getting this very wonderful building material to market. This deficiency will be supplied within the coming year.

A small list of the numerous buildings onstructed wholly or in part of the Bowling Green white limestone include New York Cotton Exchange, St. Thomas' Episcopal Church, being erected, 500 cars: the Dime Savings Bank, the Hall of Records; Carmi, Ill., county courthouse, postoffice building; Evansville, Ind., 24 public and private buildings and residences; Philadelphia. Betz Building and \$250,000 residence of Mr. Alfred Burke; Washington, D. C., \$200,000 residence of Mr. A. M. Lothrop; many custom-houses, postoffice buildings, United States courthouses, from Pensacola to the Lakes on the north, and many public ville, St. Louis, Atlanta, Memphis, etc.

This stone will stand stripping to the cents a ton.

made of commercial value, and will thus pay for itself in the shape of flux for iron furnaces, metal for railroads and county highways, ballast, etc. The softer portion resulting from the cutting and working of the finished product is readily reduced to impalpable powder by means of stone mills that grind by attrition, and thus become the sovereign remedy for clover-sick lands, so long the bane of the otherwise successful farmer. This pulverized limestone should reach the farm at a cost of \$1 to \$1.50 per ton, and every acre of land in the Mississippi Valley, if not in the entire United States, would be benefited materially by the application of one ton of this powdered limestone. If lime is demanded it can be as readily produced, for the prospective railroads will supply steam coal to the quarries for less than 75

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Sanford and Its Flowing Wells in Agriculture.

By C. O. McLaughlin.

[Written for the Manufacturers' Record.]

resources of a location, like investments of means is endeavoring to show capital the

Celery had not put on short dresses in us of the wonderful climate, explained the 1906. It was still in the long garments of reasons for the non-existence of biting cold the infant, being pushed around the flowing and told us if we would give him \$10 each well area of Sanford by a poorly-paid per month for five months he would get property for our account that would bring Opportunity for the development of the riches in a few years. As is so often the case, we discounted the value of our friend. merit, suffer while the pioneer of small But if a stranger had come along we would have weighed his marvelous story until late way to profitable investment. Every man in the night. Many people have grown and all men who discover great opportuni- rich since that summer day in the place we ties do not have smooth paths to trod. refused to risk; no, not risk, but invest Those who discovered this great continent \$50, and planters of celery, lettuce, cabon which we live had some experience; they were turned down by the "folks at home." bage, cucumbers, potatoes, eggplants and other vegetables are today making more they have no chance anywhere. Practical A friend of mine, we'll call him "Old than salaried men having what they con-demonstration has proved that uncommon

in other States that we are just being dis-

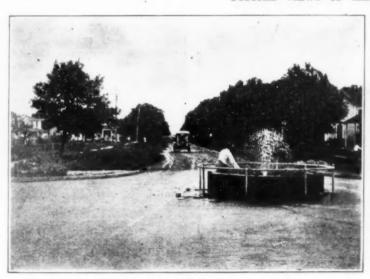
This is not a story prepared to trap the unwary in distant parts of this great continent, nor is it the tangling meshes of a cast net to drag confiding nearby neighbors away from happy homes. The people are here to show what they have done and what they are now doing; anybody may see. Sanford and vicinity is ready to deliver the goods to the doubtful. If you are a doubter, come and see for yourself, investigate for yourself. Sanford is an impartial witness, and you may take the witness at your convenience.

There is a chance in this country of ours

ous. The transformation is wonderful, and on one of the magnificent steamers of the we are truthful when we tell our neighbors Clyde Line will bring you abreast the landing of the home of the great flowing wells, where the climate is of a character that will permit man to live and work 365 days each year if he wants to. You will find the swarthy pioneer resting on his laurels and living on his income. You will find the busy man from the East, the West, the North and even from the South. You will see a city any American citizen has a right to be proud of.

> Men who had only a small salary a few years ago are now independent, and that reminds me of a man who five years ago made a living pulling a bell line over a freight train. He is now a director in a bank, and don't have to work. When he Norks it is because he is afraid idleness will make him old. Another case comes up. In March of this year, while talking

TYPICAL VIEWS OF SANFORD FARM DEVELOPMENT.



ONE OF THE FLOWING WELLS



A CHICKEN FARM.



CELERY FARM, LAKE MUNROE.



GATHERING AND PACKING CELERY.

with gold-mine stock had held the boys in the office up with a long line of good talk, maybe we would have bought some stock in a mine we could not hope to see; in fact, some of us did that very thing. Walter lounged around the office one day, I think making money today. it was along about 1901. He had been living in Florida some time. He was the east enthusiastic talker about the possibilities of the Sanford district that any of ever dreamed of. We pulled out the map wells would flow forever. He made brackets

ius on

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for

we didn't know it. If some plausible faker to make, unless they become general offi-larly favored section. cers, and it is not possible for that to happen, even though the price of land here is greater than it was a few years ago.

become rich, and the same kind of men are trails to the gold fields of the far West not isolated cases.

I have been in Orange county and in Lake county in this State since 1906; have traveled over and carefuly investigated nearly all parts of this great State south us had heard. He told a story and pictured of Jacksonville. The conditions existing a future that was too good to be true. A when I made by home here are quite clear. few years have brought about things even and the conditions of today are before all who will give them attention. What the of Florida and watched him make pencil State produced a few years ago and what do so without discomfort or danger. The an increase of 1500; the celery and truck-marks showing where the great artesian it produces now is a matter of record. It train will stop at the "Celery City" in a ing district an increase of 400 per cent.; is not ancient history, but practically curaround a central part of the State and told rent information. The change is marvelless than 24 hours up the St. John's River number of new stores and office buildings.

Walter" for convenience, was a seer, but sider good office positions ever will be able opportunities are offered in this particu- to a friend I asked him what he expected

Many years ago, to some of us; within the memory, perhaps, of many, the bones ground, and I expect to get \$4000 out of our countrymen bleached on the hot the lot." A few days ago he told me that Men of absolutely no experience have sands of the great American desert, in the the income was about \$3500. These are the souls of the intrepid American had passed to that haven of rest where gold ing the past four years may be interesting. and worldly goods have no value. Time. as usual, has made many changes. The same spirit that led them over the plains caused later generations to build railroads terday a traveling man asked me if I reand improve other methods of transportation so that now our people may come and see what they are told actually exists, and The population in the city proper shows few hours after leaving Jacksonville, or there are 600 more residences and a large

to get out of his eggplants. He said: "There are 4000 plants in that piece of

Some idea of the growth of Sanford dur-In the spring of 1906 it was a dirty, badlykept town; weedy streets and smoky-looking buildings that needed paint. Only yesmembered how we hated to stop in and how quick we got away from the town,

The homes show prosperity, and the grounds are attractive instead of the old patches of weeds. Four years ago the total shipments of celery, cucumbers, cabbage, lettuce, eggplants, potatoes, tomatoes and other things amounted to 228,000 nackages. During this year, 1910; the total shipments are 1,050,000 packages. Five hundred and eighteen thousand dollars are on deposit in the banks. Four years ago the amount in bank to the credit of depositors was \$265,000. The \$265,000 increase has been more than double that amount, and that in less than four years This is not all the money. A great deal has been spent on land and in the improvement of farms; the stores and residences cost much money, and even now many people are living in rooms waiting for new houses to be finished.

Five long avenues and two streets have been paved with vitrified brick; all curbing is of granite. The city has a complete sys tem of water-works, gas and electric-light plants, ice factories and storage factory for cooling refrigerator cars, and a local and suburban car line with the latest model gasoline rolling stock.

The statement has been made recently that 100,000 men and women left the States last year for the cold Canadian country, and that as many more will leave this year. They will have only a few months in the year to plant and gather crops; they must suffer the ills and discomforts of that very cold country during the larger part of every year. Some of these good people could grow rich, live long and happily in Florida, where the flowers are forever in bloom and the cold winds do not bite; this great State offers an open season 365 days in the year.

Forty passenger and freight trains stop at and start from Sanford every day, and the big river steamers of the Clyde Line run between Sanford and Jacksonville daily.

The development and prosperity and the possibilities of this part of the country is a verdict in favor of the good that a little work will get out of the earth. Some dig gold and coal from depths where the sun never shines for so much per day, and the gold and the coal is owned by another. Come to us and you can dig the things from the soil to get the comforts of life much easier than the man down in the We have the room and the climate in which both man and beast may live with comparative ease.

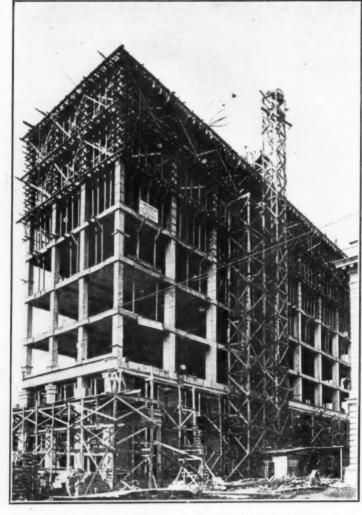
All newspaper articles, magazine articles, advertisements and even private letters about this country should be given serious consideration by those who read them. This is a picturesque, temperate, fertile country, and the big, broad pioneers who are here invite men of brains, energy and capital to help them build a great State and at the same time grow comfortable while the opportunity is open.

CRACKS IN CEMENT.

Information Wanted as to Their Prevention.

Editor Manufacturers' Record:

North Carolina built an addition to it. consisting of a two-story building. The foundation consisted of a very heavy mass of concrete, reinforced with scrap pipe. At one corner of this building rock was encountered and the footing rested on it. ing, while the bottom was not good, it is cement could have anything to do with it? not as bad as is very frequently met. The owners were extravagant rather than economical with material, it being their intention to build solidly. The walls from the concrete footing to the second floor are 26% inches thick, laid of hard brick in About four feet from one corner there is a Portland cement mortar without any lime,



ROBSON AND PRITCHARD BUILDING, HUNTINGTON, W. VA.

Under construction; cost complete, \$300,000; fireproof throughout; reinforced concrete construction; 10 stories high; architectural stone trimmings; manganese spot brick; oak interior; marbleized fiber floors; 160 offices, each with fireproof vault, hot and cold water and running ice water; lower floor for bank; garden on roof; architects, Elzner & Anderson, Cincinnati; general contractor, Roche-Bruner Building Co., Cincinnati: superintendent of construction, H. C. Lindsay, Huntington; high-speed elevator by Otis Elevator Co., New York; safes and vaults by Victor Safe & Lock Co., Cincinnati; vacuum cleaning, plumbing and heating systems by West Virginia Plumbing & Heating Co., Charleston.

course. The building is 230 feet long and set. A crack has appeared in front of the 54 feet wide, the form of construction being that of a mill building, consisting of a great many large windows, so that the weight of the upper floor and roof was practically carried on the piers formed by frame. Is such a thing possible? the solid brick between the windows. There are no sills used, the brick being beveled up to the window frame and finished off as a sill.

In several places in the middle of the space between the windows small cracks extending clear through the wall developed. In some places the cracks extend vertically through the bricks as well as the joints.

The owners have another cotton mill. built exactly as this one is, without any cracks, and as the utmost care was used in the construction of this work they are at a loss to understand why there should be The owners of a large cotton mill in cracks, and they are inclined to blame the cement, or the particular brand of cement, notwithstanding the fact that the cement was sufficiently strong to force the crack to follow a vertical line through the brick rather than to follow the course.

Can you suggest a way to avoid thes Away round on the other side of the build- cracks in future work? Do you think the

Again, the secretary of this cotton mill was building a residence for himself and constructed an eight-inch wall under his front porch, carrying it down about four feet below the ground to get solid bottom. window frame constructed of heart cypre and the bricks were flushed up every thoroughly dried and primed before being

eight-inch brick wall running for the most part horizontally between the courses of bricks, and the only theory that the writer can advance is the swelling of the window

G. F. B.

Concrete Buildings in Texas.

[Special Dispatch to Manufacturers' Record.] El Paso, Tex., July 14.

There is now and has been for the past three months a marked improvement in the cement market, and, based principally upon the laws of supply and demand, prices are better than for a considerable period. Taken as a whole, conditions in the Southwest are admirable, and were it not for the continued vigorous and money-losing competition of the new mills in California as relating to Arizona and contiguous territory, conditions could scarcely be improved upon. There is a growing demand for cement in all branches, but particularly for irrigation and mining projects. Building construction also is having its full inning. One town alone in West Texas now has 10 new buildings of reinforced concrete, where eight months ago the method was only talked about.

SOUTHWESTERN PORTLAND CEMENT CO.

Bumper Crops Assure Prosperity. [Special Dispatch to Manufacturers' Record.] Kansas City, Mo., July 13.

Situation in West has been very healthy, with small advances in prices during May. citizens.

The customary lull in business in this section from June 25 to July 15 is now on. The lull is always caused by labor leaving building work to enter the harvest field. Bumper wheat crops are being harvested, with excellent prospects of a record-break ing corn crop. Result must be large building operations throughout the Middle West ection, calling for large quantities of Portland cement, which is natural indication of a firm if not an advancing market. IOLA PORTLAND CEMENT CO.

Remarkable Substitution of Cement for Lumber.

[Special Dispatch to Manufacturers' Record.]
Philadelphia, Pa., July 13.

The price of cement in the West and the South has advanced 30 cents per barrel, and in the East, where the price was already higher than in the South, 10 cents per barrel. Two years ago there was an overproduction of 100 per cent. staring the manufacturers in the face, as the estimated capacity of the plants at that time was 100,000,000 barrels per year and the consumption only 50,000,000. Present conditions indicate a consumption of 75,-000,000 barrels this year. This increased demand, coupled with the fact that large Eastern manufacturers for two years have sold large quantities South and West at unprofitable figures, has caused the advance. The increase, we believe, is largely due to the sale of Portland cement to farmers and other small consumers and the general prosperity of the South and West. Western dealers report sales of 16 barrels of cement per 1000 feet of lumber, against one barrel per 1000 feet five years ago.

WM. G. HARTRANFT CEMENT CO.

200 Miles of Steel Pipe.

[Special to Manufacturers' Record.] New York, July 13.

The Texas Company's order for about 200 miles of steel pipe, reported in the Daily Bulletin of the Manufacturers' Record of today, is for a new oil trunk line from Shreveport-Caddo field to Port Arthur. Tex. This new trunk line for oil distribution will prove of very great value to the Caddo field by providing increased facilities for the shipment of oil, and likewise of value to Port Arthur by enlarging the supply of oil available for refining. The order was distributed between the National Tube Co. and the La Belle Iron Works.

Ayden's Openings.

Ayden, N. C., July 13.

Editor Manufacturers' Record:

This practically new town is almost an agriculture-made town. It is in one of the finest and best farming sections of East North Carolina, and is one of the greatest trading centers. There are good room and fine opportunities for some new openings. There is one of the finest chances for a good hardware and implement store that will carry in connection with hardware a general line of improved farming machinery. The country is now just beginning to use farm machinery.

The opportunity is open for a good drug store, and there is great need of a national bank. It is a fine station for a mannfacturer's distributing point, especially for improved farm machinery, gasoline engines, sawmill and cotton-gin machinery. plows and many other such things; in fact. it is a country making great strides.

Farms that sold for \$1 per acre 10 and 15 years ago are now worth from \$100 to \$200 per acre. We raise the finest bright tobacco, the best cotton, always making a good crop under most any circumstances. and get good yields. Most all small people own their own homes and do their own work and pay their debts, which makes it a fine country and a good town and good J. A. HARRINGTON.

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TRUCKING IN THE NORFOLK REGION.

[Written for the Manufacturers' Record.]

While from the great trucking pelt Western markets. Most of these cars were around Norfolk one or more crops are being sent North and East and West every month in the year, there are seasons when a dozen or more crops are running at once. Such is the case at present. Potatoes, cucumbers, squash, tomatoes, peas, beans, green corn and many other minor products are making an immense volume of soil products moving to market from producers to consumers. Of course, in this great trucking work there must be a soil to permit or aid the growth of fruits and vegetables, a soil adapted and constituted so as to encourage the growth of a variety of crops. We have such a soil in the Norfolk trucking belt. The climate must be favorable. The weather facts, figures and features issued by the weather bureau in Norfolk show conclusively and convincingly that we have the best kind of conditions to be found on the North American continent. Liberal, well distributed rainfall, plenty of sunshine, and a very long frostless season combine to aid the tiller of the soil and sustain and prosper him in his work. No matter how favorable the climate or how productive the soil, there must be a market, and the markets of 50,000,000 consumers are within 24 hours of our market gardens both by water and by rail. Therefore, the three principal or most important requisites-soil, climate and markets-are in our favor.

One more very essential feature must not be overlooked or underestimated. It is the transportation facilities and the freight rates, and both are so closely allied that they may be considered as one. to within a few years all truck shipped from the Norfolk trucking belt was sent away on steamer lines leading from Norfolk to New York, Washington, Baltimore, Philadelphia, Providence and Boston. As the trucking operations here increased with enormous strides it was often the case that all these great seaboard markets were glutted with the immense quantities of perishable truck shipped to said cities.

Then the railway came onto the scene and began to compete for a portion of the business. The Pennsylvania system built the New York, Philadelphia & Norfolk Railway to Norfolk by way of the Eastern Shore of Virginia and Cape Charles, requiring a four-hour water trip across the Bay from Cape Charles City to Norfolk.

If all our soil products were sent to market by water, every market along the seaboard would be giutted half the time, with immense losses to the producers here. The railway comes onto the scene and solid trains of truck are sent from Norfolk across the bay, a trip of 40 miles, requiring four hours to make it, and such trains are run to market, often on express, mail and passenger schedules. In fact, the regular mail passenger and express trains are manipulated so as to give the "right of way" to the perishable freight, which must be hustled to market as fast as possible.

At the outset this method was considered impracticable and unprofitable to both the producers and the railway people. But the plan was conceived in a master mind and carried out by a master manipulator of men and methods. Now for some of the results. I have the data for one day's shipment. On Saturday, June 18. the New York, Philadelphia & Norfolk shipped out of Norfolk 410 cars of perishable freight, also 225 cars of same character from the Cape Charles side, making 635 cars of soil products sent in one day over one line of railway to Northern and survey and valuation. The report of the

iced, and the contents could be safely sent to any market in the Middle West and the Eastern markets relieved that much. But the principal point in this communication is to show the volume of the trucking work. It requires about 600 men to load one of the steamers of the Old Dominion Line at Norfolk in 10 hours' time. It takes 30,000 packages, as they run-boxes, barrels, crates and baskets-to fully load such a steamer. A large portion of the produce sent on these steamers, and on the steamers running daily to Boston, Providence. New York, Philadelphia, Baltimore and Washington, is brought down to the harbor by means of little sail vessels, each holding from 50 to 500 barrels or packages of truck. It is estimated that there are 5000 such craft in these waters. They run up ever stream, inlet, creek or arm of the sea to the thousands upon thousands of farm wharves and landings, and take the truckers' truck directly from farm to steamer. This method of transporting perishable truck from farm to the Nori'olk shipping center is economical, rapid and easy on tender fruits and vegetables. It is a short haul from farm to farm wharf, and no trucker has to haul more than two to three miles at farthest-most of them an average of one mile only. From wharf to city there is no jolt, or jar, or jam, or damage done. It costs from 5 to 10 cents per package freight on the truck from farm wharf to city wharf. Two steamers a day are often required to carry the produce to New York, 20,000 to 30,000 packages each. Two steamers go to Baltimore and Washington daily, and one to Philadelphia, and one each to Boston and Providence. It is an immense volume of agricultural business or work.

The transportation facilities and the volume of business, the number of packages handled in a single day in Norfolk reads like a romance. It is an agricultural romance, and the trucking industry, by reason of the great uncertainties connected with it and the fact that fortunes are made and lost every year in the work, is nothing more nor less than agricultural gambling. The business, however, is steadily on the increase. Both intensively and extensively it is on the increase, and this makes the increase almost a geometrical increase rather than an ordinary arithmetical one.

Oceana, Va.

North Carolina Development.

[Special Cor. Manufacturers' Record.]

Raleigh, N. C., July 18.

The first report on losses by forest fires in North Carolina will be submitted by State Geologist Pratt, and will cover the year 1909. Dr. Pratt says that the loss totaled \$3,000,000, and that nearly all of this could have been prevented. The loss was not only of standing timber, but of es and other property. The chief places for fires are the mountains and the pine forests in the sand-hill section. The loss is absolute, and in the mountain regions brings about other troubles, including washing of slopes and the ruin of lowlands. The State geological board has completed the inventory of the standing timber in the 16 counties west of the Blue Ridge, and it is being made for the remainder of the State. The State itself is the holder of more than 500,000 acres of timber in the eastern counties. These lands, officially known as "swamp lands," have been sold for a song until recently, but are now withheld, pending a very careful

using industries in the State.

The MANUFACTURERS' RECORD'S great interest in improved roads has had a powerful effect in the South, and Dr. Pratt referred to this fact. This is an important part of his efforts. Forty counties in the State are at work upon the best type of roads. These counties not only use their placing their bids and receiving orders. own convicts, but also in a number of cases secure those from others which are not engaged in permanent road construction. Under a new provision the State furnishes expert engineers to counties in this line, and these are now making surveys and giving suggestions in six counties. Dr. Pratt says that while Mecklenburg, where the good-road movement first started, yet leads in mileage, Guilford is making such great progress that it is a close second. It is found that convict labor is admirable for this work, and that about 2000 convicts are thus employed.

The State geological board has nearly ompleted a report on the mica deposits. which lie largely in the counties in the high mountain region and in the southern Piedmont section. This State furnishes a very large portion of the best mica used in this country. During the next 90 days a survey of what is known as the Virgilina copper district, located largely in Granville county, will be completed.

Governor Kitchin, who is at the head of the geological board, is deeply interested in drainage work. It had been hoped that this work would begin early the present ear on a great scale in Hyde county, with Lake Mattamuskeet, owned by the State, as a center, but there is delay for lack of F. A. Olds. unity of idea.

The Birmingham Iron Market.

[Special Cor. Manufacturers' Record.] Birmingham, Ala., July 18.

The pig-iron market has been very quiet, both inquiry and sale ends. Birmingham interests report their strict adherence to \$11.50 and \$12 prices. This, of course, for standard Alabama iron. Prices for Southern iron, broadly speaking, have been heard of as low as \$11 per ton at the furnace. In trying to trace the origin of such prices I found that they wholly belong to the Tennessee irons and the Northern Alabama high-phosphorus irons. This, of course, is "rumor," But a very small tonnage of iron was booked the past week, probably not over 1500 tons. Of this tonnage the majority was small lots. No one seems to be able to intelligently ascribe a reason for the stupor, but nevertheless it is highly prevalent in our midst. There is a feeling, apparently, on the part of buyers that bottom has not yet been reahed, and the tendency is to hold off. There is no denying the fact that a comfortable tounage has been placed by the more important interests at low figures. This is but natural, when one considers the fact that so long as the small buyers stay out of the market it gives the larger ones full sway to hammer prices and take on their requirements. While they are doing this the small fellow stands back and waits for the price to go still lower, se that he may step in and get a slice. It usually happens that such an atitude on his part forces the market upward, and in the end eh pays the price, as well as the "freight." Southern charcoal iron quoted at \$22 to \$22.50 per ton at the

There were no new developments in the cast-iron pipe market. There has been no curtailment of output of this product, and prices have ranged about the same for the past several months, notwithstanding the fact that the pig-iron market has violently fluctuated. Following prices are quoted per uet ton f. o. b. cars at the plants ered by wrought-metal canopies conhere: Four-inch, \$24; 6, 8 and 10-inch, structed of bronze and glass, and the build-

eological board will also include the wood- \$21: 12-iach and over, average of \$20, with \$1 a con extra for gaspipe.

> There has been an unprecedented movement of coal, and some large contracts are now pending, especially from the railroads. Representatives of seevral of the important companies have been in New Orleans. and other points for several days past

SOMETHING ABOUT SWAMPS.

While the papers of the country are giving so much space to details of the reclamation of the so-called swamp or wet lands of the South, it is well for everyone to have a correct idea of these terms, and not imagine because land is wet there is water on it several feet deep.

As a matter of fact, the designation "swamp" has been very much misused or misinterpreted. "Wet" hardly fits the case when applied to many of the large areas now being ditched. Damp would be a better word, because in large part the land in the South which is being reclaimed is only damp, and that for but a short time after a very heavy rainfall.

The majority of farms all around us have their wet patches, unless they are like Sol Smith Russell's perpendicular farm. and as every progressive farmer knows the ease with which such land is made tillable by a well-placed ditch, so the problem in the South will be more correctly understood when it is realized the situation is like that on the farm, only on a larger

Let's get out of our minds the notion of swamps as our childhood's fairy stories pictured them-impenetrable gloom, bottomless morasses and sure death to every traveler. Imagine in their place broad prairies bathed in sunlight and covered with nourishing grasses and sweet wild flowers, the home of the mockingbird and nightingale, a land to look upon with delight, adjacent to steel highways and rivers for transportation, and in many cases immediately adjoining towns that are among the oldest in civilization and culture in America.

When nature fashioned this continent these lands were made flat, with some parts a little lower than others. When it rains hard the water settles in pockets on this flat land until it is dried up by the sun. Oftentimes in a tract of so-called swamp lands only a part needs ditching, while the major portion may be perfectly dry, but is surrounded by land that is not at once tillable without first getting the rainwater off of it.

The character of this soil which has ever had a plow in it may be imagined. It would seem as if the prodigal hand of nature held fresh surprises for the South as each year goes by. It is hard to compute the value of this new asset, the importance of which we are only beginning to appreciate.

A \$1,000,000 Hotel for Dallas.

Some weeks ago the Manufacturers' RECORD referred to the plans of Adolphus Busch of St. Louis and associates for the onstruction of a hotel at Dallas, Tex. Arrangements have now been completed ensuring the erection of the structure, and Barnett, Haynes & Barnett of St. Louis are preparing the plans and specifications. se will call for the erection of a 20-story building, in the Louis XIV style, at a cost of about \$1,000,000. The building will have casement windows opening from floor to ceiling, with ornamental iron-barred balconies. It will be constructed of red velvet brick, trimmed with Bedford stone, and will be elaborately carved and embellished with model ornaments of the Louis XIV period. The entrance is to be cov-

and a Circassian walnut and gold lobby extending through two stories to a glassdomed roof, with balconies from the second story. In the basement will be Turkish and Russian baths, with a marble plunge bath designed in the Pompeian style. There will be every provision made for the comfort and convenience of guests. including elevators, private baths, plumbing lined with white marble, telephones, electric lighting, steam heating, roof garunderstood that construction will begin soon.

Fort Worth's Growth.

Board of Trade, Fort Worth, Tex., July 16. Editor Manufacturers' Record:

The building permits for the past month represent \$400,000, an increase of \$66,000 over the preceding month. May had been the hanner month for 1910 heretofore.

The packing-houses, which may be consideted Fort Worth's greatest producing asset in the manufacturing line, have shown a wonderful growth for the past few years. Compared with 10 years ago, the annual business is \$75,000,000 to \$500,000, the number of live-stock slaughtered 1,665,000 to 65,000, and those employed at the plants 5000 to 200. Closely allied to the packing industry are the stockyards. They display the same growth. Where 15 acres sufficed for a site in 1900, now 50 acres are required. Then, 163 pens held the live-stock coming to market; now 1217 are required to hold These pens then would hold 146 them. cars of live-stock per day; now 1332 cars of cattle, horses, sheep and hogs can be varded. Then the total number of head of live-stock coming to market annually was last year the number 2.288,700.

The \$200,000 bonus necessary for the securing of the Texas Christian University has just been raised after a campaign two weeks. Five thousand inhabitants will be added to the city, while more than \$750,000 will be poured into the city through this source annually. Temporary quarters have been secured by the college, and next fall will find the university with the largest attendance in her history.

This week 200 men, with 100 teams, will begin work on the 11 miles of levee, which, when completed, will protect from overflow more than 4000 acres of land in one of the most suitable parts of the city for the location of factories. These advantageous factory sites have been unavailable for practical purposes heretofore. but with the dyke protection no better or more advantageous sites can be had. The Banks drainage district are: R. C. Burke. work will cost \$250,000.

H. E. HERSHEY.

Value of Southern Lands.

The Board of Trade of Little Rock. Ark., is notifying a number of real-estate dealers in other States that they are very much mistaken in their advertisements that there is an untold acreage of very cheap land in Arkansas, and that land acreage is being offered at almost a nominal sum by the sawmill men generally. The Board of Trade has taken great pains to ascertain the intention of the mill owners in regard to their cut-over timber land, and has written to 20 of the largest owners. The replies show that, as a rule, the mill men are now turning their attention more than ever to scientific methods in conserving their supply of timber so as to have a supply for years to con

Nearly all of them write the Board of Trade that while they will not sell large tracts for speculative purposes, they will

ing will have a French roof, a roof garden dividual buyers for actual settlement, reduction, and last night were jubilant RECORD of June 30, under the heading, One company writes that it has about 23,-000 acres about equal distance from Little ceeded. Rock and Pine Bluff, which is in the market in a body, and that this land is particularly adapted to truck farming; that the country is healthful, and the land is good creek bottom where not upland or hilly. Five of the companies write that they are listing none of their holdings for sale. One of the leading companies in Southwest Arkansas writes that while it will den for summer and winter, etc. It is sell to immigrants direct for agricultural purposes, it does not contemplate selling any great acreage, preferring to hold for the steadily-increasing prices. "It is time." the Little Rock Board of Trade writes, "that the outside dealers should put a quietus on the fairy story of the boundless acres to be had in Arkansas for a song. These stories are beginning to offered them at .0770 a thousand." hurt. As compared with prices in Illinois, Indiana, Iowa and other Middle Western States, \$25 per acre is cheap enough for land anywhere in Arkansas. Don't give away your land."

The suggestion made by the Little Rock Board of Trade, to the effect that Southern lands should not be sold at ridiculously low prices, is a wise one.

Big Drainage Contracts Awarded.

A dispatch from Helena, Ark., tells of two important contracts awarded for extensive drainage systems in Phillips county. It is in part as follows:

"The directors of the Yellow Banks drainage district have opened bids for the construction of two drainage ditches (the Yellow Banks and Cypress ditches) in the southern end of Phillips county. The former will be 24 miles long and the latter 15 miles. The contract was awarded to O. O. McDonald & Co. of Collinston, La. Actual work is to begin within 30 days,

"The district will issue \$85,000 worth of bonds to cover the cost of the work, which will be about \$70,000. A levee will be constructed alongside of the Cypress Canal, protecting the land on the east from the back water of White River.

"These canals or ditches will drain about 65,000 acres of fine farm lands in this county. This will be the first of these ditches to be dug in Phillips county, and the beginning of work of this character, which will likely be continued for 10 years before the lands of the county are thoroughly drained.

"There will probably be another district organized to embrace the land from the Helena line to connect with the commencement of the Yellow Banks Canal, near Old Town, 15 miles south of Helena. The officers and directors of the Yellow president : E. M. Allen, secretary ; Lee Pendergrass and Harry E. Kelley.

"The contract awarded to R. E. & G. A. McWilliams of Walnut and Chicago, Ill., for the construction of a canal to drain the surface waters of Helena into Long Lake has been signed. The firm will begin clearing the right of way about August 15 and complete the contract before the new year."

Shreveport Natural Gas.

As a result of the efforts of the Chamber of Commerce of Shreveport, La., E. K. Smith, president, and S. C. Buckley, secretary, the city is to receive natural gas for factory purposes at four cents per thousand cubic feet, a reduction of 3.7 cents er thousand cubic feet.

Referring to this reduction, the Shreveport Times says:

"Probably no two men in the city receive ore credit for the reduction of gas from .0770 cents per thousand feet than do Messrs, E. K. Smith and J. B. Ardis. be glad to entertain propositions from in- They have both worked faithfully for the of the world. In the MANUFACTURERS'

over the fact that they had at last suc-

"Mr. Smith announced last night that in the event it was the desire of the citizens of Shreveport to drill for gas or oil nearer the city than the wells of the above panies are located, either outside or within the city limits, that many of the most influential citizens, including himself and the managers of two of the gas companies, would contribute liberally toward the fund necessary to pay for the drilling of one or more wells.

"Probably no move that has been made in the past few years means as much to the city as does the obtaining of gas at 4 cents per 1000 cubic feet. Many factories that have desired to come to this city have held off for the reason that natural gas has been

Leading Cities' Building.

The statistics of building operations in the principal cities of the United States during the calendar year 1909, just published by the United States Geological Survey, show that the country had in 1909 recovered from the financial disturbance of 1907-1908, for the building record for 1906 was surpassed.

The cost of building operations in 51 cities that reported for all three years was 8646,059,855 in 1907, 8566,165,404 in 1908 and \$771,937,564 in 1909, an increase for 1909 over 1907 cf \$125,877,709, or 19.48 per cent., and over 1908 \$205,772,160, or 36.34 per cent. The estimated cost of building operations in these cities in 1906. was \$700,000,000, so that there was an increase in 1909 over 1906 of more than 10 per cent.

The increases and decreases for individual cities in 1909 as compared with 1908 are not very significant, because 1908 was not a normal year. The largest increase reported for 1908 was \$8,141,720, or 13.78 per cent., by Chicago, and the next largest was \$4,446,700, or 3.92 per cent., by New York: the increases in 1909 by thes two cities were, respectively, \$28,003,580, or 41.65 per cent., and \$68,228,095, or 57.91 per cent. Brooklyn, which had the largest decrease (\$25,427,604) in 1908, showed the third largest gain in 1909-\$18,402,061. Of the cities that showed decreases in 1909, San Francisco had the largest, \$5,484,273, or 17.32 per cent.; Dayton was next, with \$1,533,780, or 47.42 per cent., the largest proportional decrease, and Oakland was third, with \$1,-002,051, or 15.85 per cent. The decreases in these cities may be ascribed to local causes. The significant decrease in San Francisco indicates that the building activities of that city have probably reached a nearly normal condition after the abnormal condition following the great fire of 1906. The annual cost of building operations in San Francisco for the last five years has been as follows: 1905, \$18,268,-753; 1906, \$34.927.396; 1907, \$56,574,-844: 1908, \$31,668,341: 1909, \$26,184,068.

MUSSEL-SHELL INDUSTRY.

South.

Mr. W. S. Watson of the Memphis Button Works, Memphis, Tenn., writes to the MANUFACTURERS' RECORD:

"The fresh-water shell supply of the South is one of the South's great raw material resources. There are now being consumed in the fresh-water shell industry about 70,000 tons of shells annually. South is now being drawn upon, and will soon be called upon to furnish the principal part of this supply to the Northern and Eastern factories, which turn this material into the finished product, a staple article now exported to all the markets

Conservation of Mineral Resources of Louisiana,' C. Willard Hayes, chief geologist of the United States Geological Survey, referring to the mineral banxite found in commercial quantities in the United States, says:

" Since the mining of these deposits began, in 1889, up to the close of 1897, about 540,000 long tons of bauxite have been produced in Alabama, Georgia, Tennessee and Arkansas, having a value at the mine of \$2,000,000.' He quotes statistics to show that this product, having a value of \$2,000,000 at the mines, has been converted to \$48,000,000 in a manufactured state, and that one ton of ore, having a value at the mines of \$4, yields metals valued at about \$178, and adds:

" 'This difference of \$46,000,000 between the value of raw material and of manufactured product represents freight on raw material, labor, plant, power and profit.'

"Mr. Hayes might have included mussel shells from the South on about the same basis. Thousands of tons of mussel shells are now being shipped to Northern and Eastern factories and to Germany, at a value on the river bank at from \$4 to \$15 per ton. Every ton of these shells may be turned into finished product at a value of not less than \$150.

'It follows, therefore, as with the bauxite referred to by Dr. Hayes, that the finished product would be greatly cheapened or that the profits on the investment would be increased by the manufacturing of pearl buttons in the South, thereby receiving all the benefits, from taking out the raw material to marketing the finished product, from one of nature's great productions, and one which may be permanently maintained by proper conservation."

Interested in Copper Ingots, Etc.

D. Blumann, Postgasse 6, Vienna, Austria, writes the Manufacturers' Record:

"I may say that American raw metals. and especially copper (electrolytic) in the form of blocks, ingots, cakes and wire bars (free from entry duty here), are interesting me. These are finding in our country a ready market, and although the greatest part is coming from America, the large American mines and works are not in direct connection with the customers of our country. It would be to their interest to take up business direct with the consumers in our country, these being rich old firstclass firms (copper rolling mills and wholesalers), who buy considerable quantities and pay cash against shipping documents. Being everywhere well introduced. with good connections, I can guarantee a large business to any trustworthy and competitive American copper producers or merchants who would give me their representation for sales in Germany and Austria-Hungary, or in the latter country only.

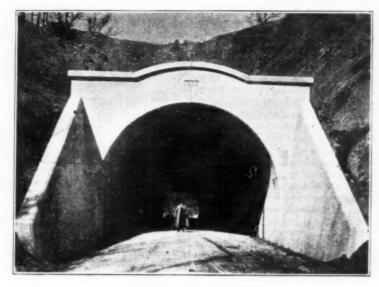
Among the correspondents of Secretary W. B. Powell of the Board of Trade of Tampa, Fla., bearing upon home-seeking in Florida is O. G. J. Schadt of Ocean Grove, N. J., who offers to distribute Flor-A Great Natural Resource of the ida literature free. Dr. Schadt, according to Mr. Powell, brought 78 persons to Florida last winter.

> At an enthusiastic meeting last week of the Mobile Progressive Association \$25. 000 were raised in six minutes toward the fund of \$100,000 to be used in inducing factories to establish in Mobile.

The third annual meeting of the Atlantic Deeper Waterways Association will be held at Providence, R. I., August 31-Septem-

The estimated assessed value of Texas property this year is \$2,350,000,000, an increase of \$50,000,000 over last year.

GOOD ROAD WORK NEAR CHATTANOOGA.



STRINGERS RIDGE TUNNEL.



MISSIONARY RIDGE TUNNEL



ROAD LEADING TO STRINGERS RIDGE TUNNEL.



ROAD UP LOOKOUT MOUNTAIN.

In the construction of good roads Hamilton county Tennessee, of which Chattanooga is the county seat, has been most active. Altogether there has been built so far about 500 miles of modern highways, while in the Chattanooga-Chickamauga National Military Park, which is but a few miles from Chattanooga, the Government has constructed about 100 miles of boulevard. Within the past five years Hamilton county has built 100 miles of good roads, and this work is being continued on a still broader scale every year. The accompanying illustrations give a comprehensive idea of the splendid work being done by the county.

The two tunnels are somewhat unique in the construction of good roads, and evidence the manner in which Hamilton county is earrying on its work. The Stringers Bridge tunnel, just north of and 23 feet high. This tunnel is lined leading up to these tunnels. ary Ridge and is 800 feet long, 30 feet out this most interesting, historical secwide and 23 feet high, and is lined with tion. The county has now in the course with the workhouse forces, and the county brick, with concrete portals and side walls. of construction under a bond issue of \$50,- bas complete machinery and equipment September on issuing \$200,000 of bonds This latter tunnel will cost \$150,000, this 000 a very fine roadway leading to Ross- for building its roadways. All of this work for road improvements. amount being provided through a bond ville, Ga. This road will be the finest in comes under the jurisdiction of Judge S. issue. The accompanying illustrations the entire county. It is to be graded 80 M, Walker, who is largely responsible for ship votes August 15 on \$15,000 bond



ROAD LEADING TO MISSIONARY RIDGE TUNNEL.

Chattanooga, is 300 feet long, 30 feet wide also show the splendidly-constructed roads feet wide and will be a dustless road, being

concrete portals reinforced with steel, the character of road constructed on Look- venting dust and standing up under auto-The other tunnel passes through Mission- out Mountain. This road winds through- mobile traffic.

constructed in accordance with the most throughout with concrete, and has two Another illustration gives a good idea of approved ideas of the day in regard to pre-

Most of the road work is constructed ing residence streets,

splendid results which Hamilton county has obtained. Actual construction work is under the supervision of W. L. Dodds, county surveyor and county engineer.

GOOD ROADS

WEEK'S HIGHWAY RECORD.

Progress in Southern Road and Street Improvement.

[Full details of highway undertakings are given in the Construction Department.]

Bonds Voted.

Lake Charles, La.-City has voted \$360,000 of bonds for streets, sewers, city hall, etc.

North Emporia, Va.—Council appropriated \$5000 for street and sidewalk improvements.

Bonds to Be Voted.

Clifton Forge, Va.—City is considering issuance of \$65,000 of bonds for paying streets and sidewalks, etc.

Elberton, Ga.-City is considering issuance of \$25,000 of bonds for macadamiz-

Linden, Ala.—Marengo county votes in

Southport, N. C .- Town Creek town-

issue for road improvements.

Sparta, Ga.—Hancock county votes 2 for constructing concrete sidewalks. July 23 on \$60,000 bonds issue for road improvements.

White Springs, Fla.-City contemplates voting on \$5000 bond issue for street improvements.

Wiggins, Miss.-City votes August 10 on \$5000 bond issue for street improve-

Wise, Va.-Wise county votes Novem her 22 on issuance of \$700,000 of bonds for road construction.

Contracts Awarded.

Abilene, Tex .- School trustees awarded contract for 12,000 square feet of cement walks, etc., costing \$3000.

Clarksburg, W. Va.-City awarded contract for curbing, pavement, etc., to cost \$40,000.

Dothan, Ala,-Houston county awarded contract for constructing a 13-mile road and a nine-mile road.

Eupora, Miss.-City awarded contract for 5000 cubic yards of grading, 3000 square feet of crossings, 100,000 square feet of sidewalks and 250 culverts.

Fort Barrancas, Fla. -G overnment awarded contract for macadamizing National Cemetery road; cost about \$15,000.

Galveston, Tex. - Galveston county awarded contract at \$5792 for construction of sidewalk and curbing.

Lexington, Ky .-- City awarded contract for asphalt paving on East Main street; estimated cost \$70,000.

Little Rock, Ark.-City awarded contract at \$3500 for resurfacing street intersections.

Longview, Tex.-City awarded contract at \$60,000 for constructing brick and macadam pavements on various streets.

Memphis, Tenn.-Shelby county awarded contract for constructing 23 miles of turnpike at a cost of about \$17,250.

Memphis, Tenn. - Turnpike Board awarded contracts for constructing about

30 miles of road in Shelby county.

Nashville, Tenn. — Board of Public Works awarded contract for curbing and sidewalk paving to cost about \$10,000.

Paris, Tex.—City awarded contract for rock asphalt pavement on Graham street, North 18th street and Lamaria avenue.

Pensacola, Fla. - Maxent Land Co. awarded contract for five miles of concrete sidewalk.

Towson, Md.—Baltimore county awarded contract at \$8500 to open and macadamize Hillsdale avenue

Trenton, Tenn.-City awarded contract for graveling and grading about five miles of street.

Contracts to Be Awarded.

Baltimore, Md .- State Roads Commission opens bids July 27 for constructing three miles of stone macadam road in Cecil county.

Birmingham, Ala.-City opened bids July 20 for asphalt binder macadam, bituus binder macadam, bitulithic or granitoid sidewalks and gutter pavement.

Clarkesville, Ga,-City opens bids August 5 for constructing 600 linear feet of curb and gutter, 8000 square yards of nacadam pavement and 900 Osquare yards of brick or concrete sidewalks.

Decatur, Ala.-Morgan county receives bids until August 9 for grading and macadamizing about 14 miles of road.

Fort Howard, Md.—Constructing Quartermaster open bids August 15 for constructing macadam roads, resurfacing macadam roads, concrete walks and crosswalks.

Fort Morgan, Ala.—Contracting Quartermaster opens bids August 5 for constructing brick-paved roads and cement

Gulfport, Miss.-City opens bids August 2 for construction of about 13,000 square yards of sidewalk.

Little Rock, Ark.-City will pave portions of Main and 3d streets with vitrified brick, asphalt or creosoted blocks.

Lynchburg, Va. - City appropriated \$15,000 for improving three streets.

Marlin, Tex.—City opened bids July 20 for 58,000 feet of paving on three streets.

Morgantown, W. Va. - Monongalia county will let contract in about 30 days for constructing 3000 linear feet of brick pavement 26 feet wide, with necessary concrete curb and sidewalks, etc.

Moss Point, Miss.-City receives bids until August 1 for grading five miles of city streets.

Newport, Tenn.-City will probably award contract to local contractors for constructing concrete sidewalks costing \$2000.

Oklahoma City, Okla.-City receives bids until July 25 for grading various streets.

Pawhuska, Okla,-City will pave 15 blocks with asphalt.

Richmond, Va.-City Council appropriated \$15,000 for improving streets in Washington Ward.

Savannah, Ga.-Chatham county will construct boulevard about 19,400 feet long. Selma, Ala.-Dallas county has surveys for road between Selma and Burnsville.

Spartanburg, S. C .- Spartanburg county plans awarding contract on July 27 for nstructing six miles of road 30 feet wide.

West Palm Beach, Fla.-Palm Beach county opens bids July 28 for constructing cement sidewalks.

Wytheville, Va.-Wythe county opens bids August 2 for constructing three and one-quarter miles of macadam road.

New Orleans-San Antonio.

Sam Park, president Reaumont and Jefferson County Good Roads Association. Beaumont, Tex., writes to the MANUFAC-TURERS' RECORD:

"There is yet no definite and actual plan as regards the construction of a continuous good highway between New Orleans San Antonio. The success of the project depends entirely on the public. My idea is that each county and parish along the route should do its share, thus accomplishing the work without entailing a burden on any community. I have secured copies of the law, as well as legal advice, and distributed the information, so that those interested could familiarize themselves with the legal limitations of a county or parish to render assistance in the construction and improvement of highways. The State of Louisiana, where the greatest need for roads exists, is now employing its convict labor on the highways, and Governor Sanders is outspoken in his advocacy of this character of development. The constant and daily-increasing use of the automobile is demonstrating the need for and utility of good roads, and the highways of Texas compare favorably with those of any State. I do not feel that I am oversanguine in prophesying that the road will be eventually built."

A Carolina Organization.

Two hundred citizens of 18 of the lower counties of South Carolina have organized the Good Roads and Drainage League of South Carolina, with Col. James Cosgrove. Charleston, president; Wardlaw Moorman, Columbia, vice-president; E. I. Reardon, Sumter, secretary and treasurer; Samuel Dibble, Orangeburg; G. R. Rembert, Richland; R. L. Wright, Sumter; H. H. Husbands, Florence; S. L. Simons, Dorchester; H. P. Williams, Charleston; J. W. Kelly, Williamsburg; J. B. Johnson, Georgetown ; W. W. Smoak, Colleton ; R. K. L. Lybrand, Lexington; H. E. Gyles, Aiken; J. F. Folk, Bamberg; A. J. Cau-canned.

Leland, Miss.-City opens bids August then, Calhoun; Neils Christensen, Beaufort: L. F. Barnwell, Barnwell: B. F. Moore, Hampton, executive committee.

Wise County Association.

The Wise County (Va.) Good Roads Association has been reorganized with Messrs. John W. Chalkley, president; W. B. Fulton, secretary and treasurer; H. F. Whitehead for Richmond district, Dr. T. M. Cherry for Gladeville district, A. P. Crockett for Lipps district and Thurston Banner for Roberson district, vice-presidents. These officers were made an executive committee of the association, and were requested to take charge of and conduct the citizens' movement in aid of carrying the election to be held September 6, 1910, for an issue of \$700,000. Every citizen of the county interested in good roads is asked to join the association.

Mississippi Enthusiasm.

During the past two weeks four counties of Mississippi have determined to issue good-roads bonds aggregating \$1,000,000. The latest action was taken by Hinds county, in which Jackson, the capital of the State, is situated. Upon petition of nearly 70 per cent. of property-holders, announcement has been made that the county will issue \$200,000 of good-roads bonds.

To Maintain Roads.

Governor Austin L. Crothers estimates that \$1,000,000 a year will be expended annually upon the maintenance of the highways of Maryland after they have been improved.

Corbin to Somerset, Ky.

Cecil Williams, secretary, writes from the "Headquarters of Somerset's New Railroad," Somerset, Ky., thus:

"At a meeting of the citizens of Some set it was decided to build a road from Corbin, Ky., through Somerset to Hopkinsville, Ky., to connect with the Illinois We have already interested for-Central. eign capital in the project, and at the meeting last week their representative was present. They make a most fair proposition, and there is little doubt but what the proposed road will be built. It is intended to first build the line from Corbin to Somerset, a distance of 35 miles, and thence to the Cumberland River, a distance of 7 miles, making a total of 42 miles. A survey will be started at once and the right of way secured. The road will traverse the richest coal and timber section of Kentucky, and form a connecting link between the Atlantic and the Gulf."

Richmond Power Corporation.

S. Dabney Crenshaw of Richmond, Va., and associates are planning the organization of the Richmond Power Corporation to build an electric plant at Midlothian.

They have chartered the company with capital stock of \$500,000, and propose a plant with an initial installation of 10,000 horse-power, additional units to be installed as necessitated by demand.

At first the company will supply electricity for power only, and plans transmission lines to Richmond, Petersburg and Norfolk. The plant will use as fuel coal from the mines at Midlothian.

Those interested with Mr. Crenshaw are Levin Joynes of Richmond, F. W. Menlon, St. John Clark and Henry B. Twombley of New York.

Mr. Crenshaw writes the MANUFACTUR-ERS' RECORD that details of the plant have not been determined.

The Julian Canning Co. of St. Bernard parish has demonstrated that Louisiana corn can be successfully and profitably

RAILROADS

[A complete record of all new railroad uilding in the South will be found in the Construction Department.]

INTERSTATE COMMERCE.

Statistics Show Large Growth of Traffic and More Safety for Passengers.

The Interstate Commerce Commission has issued an abstract of its twenty-seco annual statistical report, which covers the fiscal year ended June 30, 1909. It shows that the total single-track railway mileage in the United States was then 236,86814 miles, an increase of 3215 miles as compared with the previous year. In addition to this there were nearly 21,000 miles of second track, 2169 miles of third track, 1453 miles of fourth track and \$2,376 miles of yard track and sidings. Substantially complete returns were received for 235 409 miles of line operated.

The total operating revenues were \$2,-418.677,538 and operating expenses \$1,-599,443,410. The former showed an increase over the previous year and the latter a decrease. Operating revenues averaged \$10,381 per mile and operating expenses \$6865 per mile. The net oper ating revenue was \$819,234,128; the total net revenue, \$823.171.097 onerating income after the payment of taxes, \$738,-031,543; gross corporate income, \$937,-072.561; net corporate income, \$388,164,-115: balance to credit of profit and loss after the payment of dividends, etc., \$110,-786,441; total balance to the credit of profit and loss, \$768,528,408.

The income account of leased roads is displayed separately, showing gross income from leases \$116,533,953; net income from leases, \$110,738,184; balance to credit of profit and loss, \$16,666,085.

The par value of railway capitalization was \$17.487.868.935 or \$59.259 per mile of line as represented by the amount outstanding, namely, \$13,711.867,733.

The railroads carried during the year 891,472,425 passengers, an increase of 1.462.851, and the passenger mileage was 29,109,322,589, an increase of 26,485,645; they also carried 1,556,559,741 tons of freight, an increase of 23,577,951 tons. The ton mileage was 218,802,986,929, an increase of 421,432,127. The average receipts per passenger per mile were slightly ss than two cents, the exact figures being 1.928 cents. The average receipts per ton per mile were a little more than three-quarters of a cent, the exact figures being 0.673 cent. The ratio of operating expenses to operating revenue was 66.16 per cent.

The total number of persons employed was 1,502,823, an increase of 66,548.

The equipment of the companies consisted of 57,212 locomotives, an increase of 479; 2,218,280 cars, of which more than 2,000,000 were freight cars. Nearly all cars and engines are now equipped with airbrakes and automatic couplers.

There were 8722 persons killed and 95,-626 injured on the railroads during the year. The number of passengers killed (included in the foregoing) was 253, and the number injured 10,311, a decrease of 128 and 1245, respectively. Nearly 5000 of the total killed were trespassers on the railroads, and about 5750 of such were iniured.

Analysis of all the figures respecting passenger transportation shows that travel was much safer in 1909 than it was in the year previous.

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BONDS SOLD IN PARIS.

Kansas City-St. Louis Electric Rail-way Said to Be Now Assured.

The proposed electric railway between St. Louis and Kansas City, according to a report from the latter place, is assured the sale of \$15,000,000 of bonds by D. C. Nevin, president of the St. Louis & Kansas City Electric Railway Co. It is further stated that the directors have anproved the sale of the securities, and the funds are to be available as soon as the bonds are delivered to the purchasers,

The promoters of this enterprise have been at work on it for about 18 months, and the engineers have located the route for about three-quarters of the distance. The line will run from St. Louis to Kansas City via St. Charles, Warrenton, Williamsburg, Columbia, Arrow Rock, Marshall, Higginsville and Odessa. It will be about 250 miles long. The company, it is stated, owns 10,000 acres of coal land, some of it in Howard, Boone and Lafayette counties. Power plants will be so situated as to obtain fuel supply from these sources at the lowest cost.

Chas. A. Loomis of Kansas City, general solicitor of the company, is reported as saying that the money for construction should be available by September 1, and that contracts will be let and construction begun immediately after that. From a year and a half to two years will be neces sary to complete the line, which will cost about \$12,000,000. It is contemplated to operate electric trains every hour for accommodation service, but with four express trains daily to stop only at the principal stations. Freight service will be conducted mainly at night. Such is the plan of operation outlined.

Headquarters are in the Commerce Building, Kansas City, and among those composing the corporation are D. C. Nevin, president: John H. Berkshire, vice-president; B. L. Dorsey of Alton, Ill., second vice-president; H. E. Insley, secretary and auditor; Henry V. Johnson, treasurer. Mr. Nevin, it is stated, was formerly general attorney of the Pacific & Idaho Northern Railway at Denver, Col. Mr. Johnson was at one time Mayor of Denver and United States District Attorney for Colorado. Mr. Berkshire is president of the Berkshire Lumber Co. of Kansas City and vice-president of the National Bank of the Republic. Mr. Dorsey is a railroad contractor and coal-mine operator.

Among others mentioned interested as directors are W. D. Griffith, vice-president of the Charles D. Griffith Shoe Manufacturing Co., and W. Weston, mining engineer, both of Denver, Col; Geo. A. Anderson, mine operator and capitalist of Glasgow, Scotland, and Denver; R. S. Mahan of the Central Trust Co. of Denver; W. A. Hamilton, attorney, Chicago; C. W. Reeder of Hayes City, Kans.; Daniel F. Lewis, vice-president of the United States Title Guaranty & Indemnity Co. of Brooklyn, N. Y.; P. H. Rea, banker, Marshall, Mo.; Chas. Hoefer, president of the Higginsville (Mo.) National Bank, and Shirley Moore of Kansas City.

THESE CONTRACTORS BUSY.

Several Important Pieces of Railroad Work, an Aqueduct and a Dam.

Carpenter & Boxley, railroad contractors. Roanoke, Va., have considerable work on hand at present, including several important pieces of railroad construction. A member of the firm says:

"On the Norfolk & Western Railway in West Virginia we have one contract at Huger, change in line, which includes the driving of two double-track tunnels, one single-track tunnel, and raising the grade and lining an old single-track tunnel, with about 260,000 yards of excavation, most all rock, about 20,000 yards of concrete work; approximate cost about \$400,000.

"We also have three and one-half miles of double track for the Norfolk & Western Railway near Glen Alum, W. Va. This consists of about 250,000 yards of exca- to Augusta. It will run through parts of

proximate cost about \$150,000.

"Work on both of these pieces of work is progressing nicely. All is to be finished by June, 1911.

"We have a contract with the Virginian Railway near Pembroke, Va., for furnishing about 500,000 yards of ballast for track. This work is progressing nicely. having in two Gates crushers, crushing from 600 to 1000 yards per day. About 33 per cent. of the work is done.

"We also have a small contract for lining a 700-foot tunnel with concrete for the Seaboard Air Line Railway at Divide, Ga. Machinery has all been shipped to this place and erected, and we expect to get the work finished by October 1.

'At the present time we are building a part of section 47 on the New York acque duct in Ulster county, New York; approximate cost \$1,000,000; work will be finished in 1913; progress very satisfactory.

"We have at Thirteen, Ky., a lock and dam for the United States Government; cost of work already let to contract about \$275,000. Progress on this has been good; about 66 per cent. is finished, and we are hoping to finish the excavation and masonry by December 25."

NORFOLK'S NEW TERMINAL.

Three Roads to Erect Union Passenger Station to Cost About \$1,000,000.

It is expected that construction of the proposed union passenger station at Norfolk, Va., including a nine-story office building, will begin soon. The architects, Reed & Stem of New York, have applied to the building inspector for a permit to erect the structure, application being made on behalf of L. E. Johnson of Roanoke, Va., president of the Norfolk & Western Railway and also of the Norfolk Terminal Railway. The depot is to be used by the Norfolk & Western, the Norfolk & Southern and the Virginian railways, although other roads may use it in the future.

The principal building or head house will be nine stories in height, one of the floors to be a mezzanine. It will be 200x51 feet, and 123 feet in height. The waitingroom and annex will be 140x5316 feet, and the building for the power plant and the handling of baggage and express matter will be 35x330 feet. The Norfolk Terminal Railway has \$1,000,000 capital, and it is expected that the cost of the improvement will be nearly if not quite that sum. The several railroad companies interested will have their offices in the building, which will be constructed of brick and steel, with terra-cotta trimmings. structure alone will cost \$500,000.

The terminal will front about 400 feet on Main street, adjoining Archer's lane.

AIKEN TO COLUMBIA.

James U. Jackson of Augusta, Ga., reparing to Build Proposed Line.

The long-expected extension of the Augusta & Aiken Electric Railway from Aiken, S. C., to Columbia, S. C., is at last to be made, it appears. James U. Jackson, vice-president of the Augusta & Aiken road, and also of the street railway in Augusta, Ga., has recently been in Columbia closing deals with reference to the Gervais street bridge over the Congaree River, and the Saluda Power Co., and he is quoted as saying that options have been secured on nearly all the rights of way, but the line cannot be built in less than 18 months. It will require not less than 10 months to instruct the bridge and 15 months to build the dam on the Saluda River.

It is about 50 miles in a direct line from Aiken to Columbia, but the extension may be a little longer than that, thus making a line of about 75 or 80 miles from Columbia

as the result of a deal closed in Paris for vation, mostly rock, and one bridge; ap- Aiken and Lexington counties, which need presidents; W. B. Noble, Alva, and S. B. railroad facilities and which is a rich and Moore, Oklahoma City. fertile country.

> According to a dispatch from Augusta. the proposed extension from Aiken to Columbia is part of the plan outlined som time ago to build an interurban electric railway from Atlanta Ga. to Columbia. S. C., via Augusta, taking in the Augusta & Aiken Railroad. This will make a line about 280 miles long.

> The dispatch further says that Redmond & Co. of New York, it is announced, have closed a deal for the interest of the Harriman estate in the securities of the various properties connected with the Augusta & Aiken Railway for a consideration of \$2,700,000, and that the transfer of the properties will take place July 29, after which prepaartions will be made to build the road from Augusta to Atlanta and from Aiken to Columbia.

> It is further stated that the properties included in the deal are the Augusta Railway & Electric Co., which conducts the street-railway and electric-light business in Augusta: the Augusta & Aiken Railway, the North Augusta Hotel Co. (owning the Hampton Terrace Hotel, opposite Augusta) and the North Augusta Land

New Railroad Enterprises.

Among the new railroads recently organized or chartered are the following:

St. Louis, Fort Smith & Dallas Railroad Co., to build 60 miles of line from Fort Smith, Ark., to Wilburton, Okla., 50 miles; capital \$50,000. The directors are M. C. Burke and John H. Vaughn of Fort Smith, Ark.; R. S. Willie and R. C. Alexander of Rogers, Ark.; R. E. Reynolds W. Murray of Arkoma, Okla. Mr. Burke is reported as saying that the company intends to finally build from St. Louis, Mo., to Dallas, Tex., and that survey is to begin within a month between Arkoma, a new town, and Wilburton.

The Mingo Railroad Co. of Charleston, W. Va., capital \$50,000, to build a line from a point near Lenore, on Pigeon Creek. on the Tug Fork of Sandy River, in Mingo unty, to a point on the Guyandotte River near the mouth of Gilbert Creek, in the same county. The incorporators are Simon P. Richmond, V. L. Black, L. G. Summerfield, Angus W. McDonald and G. S. Couch, Jr., all of Charleston, W. Va.

The Savannah & Southwestern Railroad Co. chartered to build a line in Georgia from Savannah across the State, in the direction indicated by its title, to Fort Gaines, Ga., 230 miles; capital \$1,000,000. The incorporators are F. R. Durden and E. M. Frank of Savannah, W. T. Kicklighter of Bryan county, C. S. Price, N. A. Haggard, W. G. Warnell, G. W. De Loach, D. M. Bradley, J. H. Perkins, W. C. Perkins, C. W. Smith, J. V. Kelley, S. T. Ellis, M. A. Smith, P. M. Anderson of Tattnall county.

The Rock Island, Texico, Farwell & Gulf Railway Co, chartered in New Mexico to build from Texico to connect with the Rock Island, about 20 miles east of Tucumcari, and also to extend south from Texico to a connection with the Texas Pacific, for which a Texas charter will be secured. Contract is reported let to Mr. Temple for several miles of grading. The Chicago, Rock Island & Gulf Railway is evidently interested; headquarters at Fort Worth, Tex.

Fairview & Oklahoma City Railway Co., capital \$100,000, chartered in Oklahoma to build a line from Fairview to Rusk, four and one-half miles. The incorporators are O. E. Snyder of Oklahoma City, president; H. A. Noah, secretary; M. M. Fulkerson, treasurer, both of Alva, Okla.; W. D. Bowling, H. A. Bower, H. Clay Willis, all of Fairview, Okla., vice- & Railway Co. are A. T. Hamilton, presi-

New Equipment.

The Galveston Electric Co. has received three new closed cars similar to those now operated by it. The company has also ordered and will soon receive five open cars, each seating 50 passengers

The St. Louis & San Francisco Railroad Co. has purchased six gasoline electric motor cars from the General Electric Co., Schenectady, N. Y.

The 200 oil tank cars purchased by the Texas Company of Houston from the American Car & Foundry Co. of St. Louis include 85 single-compartment 8000-gallon cars, 10 two-compartment 8000-gallon cars, 15 three-compartment cars of the same capacity, 65 single-compartment cars of 6000 gallons capacity and 25 two-compartment cars of the same capacity. Deliveries are to be made as rapidly as possible, the contract dating from May 31.

The Texas Southeastern Railroad is reported to have ordered one 10-wheel locomotive from the Baldwin Locomotive Works, Philadelphia.

The Chesapeake & Ohio Equipment Corporation has been chartered in Virginia with authorized capital of \$1,000,000, and it is understood that equipment bonds will

The Virginian Railway has filed at Norfolk, Va., an agreement for the purchase of 1000 steel gondola cars at \$1177 each from the Pressed Steel Car Co., Pittsburg. Pa. This covers the cars ordered March 14.

The Knoxville, Sevierville & Eastern Railway, which proposes to build an extension, will need 16 miles of 56 or 60pound relay rail. W. A. Seymour is chief ngineer and general manager at Knoxville, Tenn.

Frisco's Gas-Electric Cars.

An officer of the St. Louis & San Francisco Railroad confirms the report that the company has purchased some gasoline motor cars, but the number is only six, instead of 12, as previously reported in a press dispatch. The cars are of the gasoline-electric pattern, and were ordered from the General Electric Co. of Schenectady, N. Y. They will be 70 feet 2 inches long, and each contains a baggage compartment 8 feet 1 inch long, with side doors, a compartment 10 feet 3 inches long for colored passengers, a smoking compartment 9 feet 11 inches long for white passengers, and a first-class passenger ompartment 23 feet long. There are three toilet-rooms, an observation platform, electric lights, electric fans and other improvements, including Garland ventilators. The windows have automatic, metal-framed copper-wire screens. The seats will be finished with Friezette plush and the woodwork and ceiling will be in keeping with the best modern practice in car-building. A feature is that side entrances are provided between the smoking compartment and the first-class passenger compartment.

Purchase of a Railroad.

An officer of the Arbacoochee Timber & Railway Co. of Hopewell, Ala., and Tallapoosa, Ga., informs the MANUFACTURERS' RECORD that the railroad of the Vanderbilt Timber, Mining & Southwestern Railway Co., a short line built several years ago out of Tallapoosa, has been purchased by the first-named corporation, which is chartered in Alabama; furthermore, that the contract for the reconstruction of the line and for additional mileage has not yet been let, as the company is awaiting some bids. It may be some time before the contract is awarded.

The officers of the Arbacoochee Timber

and C. G. Schmitt, secretary and treasurer.

It was previously reported that the railroad had been purchased by Charles W. Eckert of Lancaster, Pa., but the official ere quoted writes that he is unknown to him, nor is he connected with the company, expected to require about two years.

Birmingham Belt Relocation.

The Illinois Central Railroad Co. will have charge of the work of relocating the Rirmingham (Ala.) Belt Railroad for a distance of nearly two and one-half miles in Birmingham from Tenth to Twentynd avenues; also making a connection with the Southern Railway. The bridge work will consist of frame trestles and east-iron pipe culverts. Connection is also made with the Central of Georgia Rail-A. S. Baldwin is chief engineer at No. 1 Park Row, Chicago,

According to a press report from Birmingham, the contract for grading on this work was let by the Illinois Central at about \$85,000, the contractor being the Vance Contracting Co. Grading will begin immediately. Altogether about \$135,-000 will be spent in the Norwood section.

B. & O. Statement.

The Baltimore & Ohio Railroad Co.'s statement for all lines of the system, but exclusive of outside operations, for June, as compared with June. 1909, shows gross earnings \$8,088,755, increase \$1,332,791; expenses \$5,540,250, increase \$987,457; net earnings \$2,548,505, increase \$345,334. ager, and R. M. Bassett, treasurer. For the 12 months of the fiscal year, as compared with 1909, the statement shows gross earnings \$88,901,252, increase \$12,-488,396; expenses \$61,233,801, increase \$10,169,820; net earnings \$27,567,451, increase \$2.318.576. The gross earnings were the largest in the history of the company, but the net carnings, while much greater than in 1909, were less than in 1907, a banner year, owing to the large increase in operating expenses.

St. Joseph to Savannah, Mo.

The St. Joseph & Savannah Interurban Railway Co., which has let contracts to the J. H. Flick Construction Co. of Chicago, will have a line 10 miles long from St. Joseph to Savannah, Mo. The line runs through rolling country for the greater part of the distance, although son The bridges will include one pile trestle 500 feet long and 50 feet high and nine smaller trestles from 11 to 56 feet long. John H. Van Brunt is president; John I. McDonald, vice-president; Chas. E. Foster, secretary; Chas. W. Campbell, chief engineer, at St. Joseph, Mo.

'Cincinnati to Pittsburg.

Charter has been obtained in Delaware for the Cincinnati & Pittsburg Electric Railway Co., capital \$20,000,000, the incorporators being residents of Huntington, W. Va. They are A. E. Cox, A. W. Werninger, C. R. Wyatt and C. P. Sanborn.

Mr. Cox is quoted as saying that construction will begin on the line (which will be 466 miles long, all on the Ohio side of the Ohio River) within two months, and it is expected to complete it within three Foreign capital is interested, and right of way has been secured for nearly the entire route.

It is contemplated to use Edison's storege-battery system, and it is reported that the well-known inventor is fluancially interested in the company as a stockholder.

Will Build Own Line to St. Louis.

The Nashville, Chattanooga & St. Louis Railway, according to a report from Nashville quoting E. C. Lewis, chairman of the board, will secure its own right of way to East St. Louis, which it now reaches by traffic arrangement with the Illinois Central Railroad. It appears that the road

dent; W. W. Summerlin, vice-president, will use the new bridge which is to be built by the Burlington system over the Ohio River from Metropolis, Ill., to a point near Paducah, Ky. The erection of this bridge and the completion of the proposed extension on the Illinois side of the river is

Four Bridges to Be Built.

The proposed reconstruction of four bridges over the Kaw River at Kansas City will, according to estimates made by Daniel Bontecou, the engineer, demand considerable expenditures on the part of everal railroads. The total that the lines must pay is \$1,263,967, which is distributed among the Missouri Pacific, Union Pacific, Rock Island, Kansas City Southern, Chicago Great Western, Kansas City Terminal or Belt Line, and the Intercity Viaduct. These changes, it appears, are to be made on the Kansas side of the river.

Crosbyton-South Plains.

W. H. Denison of Lubbock, Tex., has the contract for grading and tracklaying on the Crosbyton-South Plains Railroad. to be 40 miles long from Lubbock to Crosbyton, Tex. There will be two trestle bridges 40 feet high and, respectively, 500 and 1000 feet long. Connection will be made with the Santa Fe at Lubbock. The ute lies through level country. John A. Knox is chief engineer, and the other officers are P. C. Coonley, president; J. M. Bassett, vice-president and general man-

Sevierville Road to Extend.

The 15-mile extension which the Knoxville. Sevierville & Eastern Railway proposes to build from Sevierville, Tenn. southeast will probably be constructed with the company's forces; if not, contract will be let within 60 days. This extension is to reach timber land, but five miles of the extension will be utilized in the future as a through line. The route is through rough country, but no tunnels are required. There will, however, be two small timber bridges.

Railroad Notes.

A dispatch from Dallas, Tex., says that H. R. Green, president of the Texas Midland Railroad, announces that he will hereafter spend most of his time in New York city to assist his mother, Mrs. Hetty Green, in the management of her

A prominent official of the New Orleans Great Northern Railroad denies the current report that the company proposes to build an extension from Jackson, Miss., to point near Memphis, Tenn. He says that it has no plans for extending north of Jackson a this time.

The Alabama Car Service Association eports that it handled during June 64,295 cars, an increase of 17,200 cars as compared with the same month of last year. The first six months of 1910 show a total 406,525 cars handled, an increase of 84,098 cars as compared with the same period last year.

Mark W. Potter, chairman of the Carolina, Clinchfield & Ohio Railway, 24 Broad street, New York, is quoted as saying that the company is proceeding with its intention to make Charleston, S. C., a terminal for the road, and will soon begin construction of a pier there. Entrance to the city will be obtained over the Southern Railway and the Atlantic Coast Line.

An officer of the Gulf, Colorado & Santa Fe Railway says that the company is not having any surveys made north of Longview, Tex., and it does not contemplate making any such in the near future. This is with reference to the press report that construction would soon begin for the projected extension to the coal fields of Cass

LUMBER

A complete record of new mills and build perations in the South will be found in the Construction Department.]

To Expend \$750,000.

An estimate of building operations in rogress or contemplated in Meridian, Miss., within the next few months indicates that approximately \$750,000 will be expended. Included in this estimate is a new city hall to cost about \$75,000, pubschools to cost about \$100,000 and other public buildings to cost \$25,000. It is understood that bids will soon be invited for the erection of the Citizens' National Bank Building, to cost approximately \$150,000, while work will soon start on a new theater to cost about \$40,000. The United States Government will also soon begin the erection of an addition to the present Federal building to cost about \$50,-000, and a company is being organized, it is stated, to erect a hospital to cost \$50,-000. Among structures in course of erection is a roundhouse at the Northeastern shops, to cost \$40,000; Dr. Turner's hospital, to cost about \$15,000; E. E. Howard's store to cost \$5500, and a number of other buildings. It is stated that the Eagle Cotton Oil Co. will build a brick office structure, to cost \$3000; the Priscilla Knitting Mills will expend about \$40,000 for a new building. In addition, a recent bond issue provided for road work in Lauderdale county to the amount of \$200,000.

To Develop Cottonwood Timber.

With reference to its recent purchase of timber land in Mississippi, the Link-Newomb Mill & Lumber Co. of Bentonia, Miss., advises the Manufacturers' Rec-ORD that it purchased 1100 acres of cottonwood timber land fronting on the Mississippi River, in the southwest part of Claiborne county. This company manufactures hardwood and other lumber, and bought the property in question for development, intending within the next year to erect a modern band mill of 25,000 feet daily capacity to facilitate its purpor The purchase price was \$42,000 cash. The company owns extensive timber rights in Yazoo county, and is at present operating two circular mills.

Wants to Buy Lumber.

Harry A. Loche, 547 Drexel Building, Philadelphia, Pa., writes the MANUFAC-TURERS' RECORD that he wants quotations from wholesalers for about five carloads per day of lumber, consisting of spruce, white pine, hemlock and oak.

Specifications of the sizes and quantity onired can be had by addressing him. Wholesalers must enter into a contract for this delivery daily for a period of three five years. Location of shipments and full information will be given upon application. No retail prices will be considered.

Buys 30,000 Acres Cypress Lands.

that capitalists, represented by H. L. all the cypress lands and sawmill properties at Freeport, Fla., of the J. J. McCaskill Company. The lands aggregate about 30,000 acres of virgin cypress, while the plant is modern and well equipped. It is stated that the purchasers will increase the output of the plant. The purchase price is reported to be in excess of \$250,000

Wants Timber Land.

M. P. Bonifant of Powhatan, Va., writes the MANUFACTURERS' RECORD that he is in the market for a large tract of hardwood or pine timber of fine quality.

Lumber Notes.

Building operations in the District of Columbia for June amounted to \$2,261,-401 for new construction and \$313,263 for alterations and repairs.

The estimated cost of new structures for which permits were issued in Baltimore during June amounted to \$1,060,900. and for alterations and repairs to \$54,000, making a total of \$1.114.900.

Building operations in New Orleans from January to June, inclusive, are estimated to involve an expenditure of about \$500,000 more than for the corresponding period last year. This includes new structures, alterations and repairs.

MINING

Developing 30,000 Acres.

The MANUFACTURERS' RECORD is informed that the Asher Coal Mining Co. of Wasioto, Ky., which recently incorporated with a capital stock of \$350,000, is doing construction work preparatory to the development of 30,000 acres of coal lands which it owns. It is at present shipping three cars of coal per day. L. A. Osborn of Wasioto is the engineer in charge of construction, and George R. Marrs of the same city may be addressed with reference to equipment. Officers of the company are T. J. Asher, president; H. H. Asher, vice-president, and Robert Asher, secre tary and treasurer.

Norfolk & Western Coal Shipments.

Coal shipments from mines on the Nor folk & Western Railroad during June amounted to 1,161,757 tons of commercial and 107,236 tons of company coal. these, the Pocahontas field shipped 800.657 tons commercial and 78,064 tons company: Tug River field, 123,128 tons commercial and 41,774 tons company: Thacker field, 122,208 tons commercial and 66,054 tons company; Kenova field, 55,463 tons commercial and 17.117 tons company and the Clinch Valley field, 60,211 toncommercial and 4227 company. The condition of the mining industry throughout the Virginia and West Virginia fields is said to be most encouraging.

Kanawha and New River Districts.

Coal loading in the Kanawha and New River districts for June shows a decreas as compared with the loading for May, but an increase as compared with the loading for June, 1909. Shipments from the Kanawha field amounted to 766,490 tons. while coke shipments aggregated \$040 tons. In the New River district coal shipments amounted to 518.310 tons and coke shipments to 27,960 tons.

Mining Notes.

It is announced that the Pratt Consolidated Coal Co, of Birmingham will begin operations at its new coal washer at Coal Creek within a few days.

It is announced that the New Orleans A dispatch from Pensacola, Fla., states & Northeastern Railroad has placed orders with coal companies operating in the Bir-Baker of Plattenville, La., have acquired mingham district for 300,000 tons of coal.

> The Maryland State Horticultural Society will hold its summer meeting at Berlin July 28, and at Ocean City July 29. Its annual meeting and exhibition will be held at the Fifth Regiment Armory, Baltimore, November 28-December 3. Richard Vincent. Jr., White Marsh, is president. and C. P. Close, College Park, is secretary of the society.

> It is reported that a company of which R. Ray Flint is manager will establish a cattle ranch upon \$4,000 acres of land in the mountains of Swain county, North Carolina.

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TEXTILES

A complete record of new textile enter-rises in the South will be found in the Construction Department.]

Correspondence relating to textile matters especially to the cotton-mill interests of the South, and items of news about new mills enlargements, special contracts for goods. market conditions, etc., are invited by the MANUFACTURERS' RECORD. We shall be glad to have such matters at all times, and also have any general discussion relating to otton matters.

Norfolk Knitting Mills Corporation.

The Norfolk (Va.) Knitting Mills Corporation has acquired the Norfolk Knitting Mills from C. Brooks Johnston. This new company was reported incorporated last month with a capital stock of \$50,000. and its officers are: President, J. Katzenberger of New York; secretary-treasurer, C. Brooks Johnston. The plant has 55 knitting machines and 250 sewing machines for manufacturing boys' and men's underwear.

To Build Weaving Addition.

The Salisbury (N. C.) Cotton Mills will build an addition to weaving department. This addition will be of brick, one story high, 74x80 feet, and it will be equipped with 80 looms. The company now has 21,500 ring spindles and 590 parrow looms. driven by electric and steam power. Its output is ginghams, cheviots, ticking, etc.

A \$300,000 Mill Company.

D. T. McKeithan, L. E. Williamson, C. B. Edwards and S. Vaughn of Darlington. S. C., propose organizing a \$300,000 stock company to build a cotton mill.

Textile Notes.

- R. L. Gray of Gray Court, S. C., is interested in a plan to build a cotton mill.
- J. A. Matthews of 242 Tucker street. a carpet and rug mill.

The American Woolen Mills Co. of Parkersburg, W. Va., has been incorporated with \$5000 capital stock by M. R. Hansel, Charles L. Strehli and others,

L. L. Wagnon, care of Union Grocery Co., Main and Bachelor streets, Union, S. C., contemplates establishing overalls factory and possibly waste mill, or both combined. He wants information and prices on the necessary machinery.

Will Consolidate Three Mills.

In connection with the organization of the Union Oil Mills of Hope, Ark., the MANUFACTURERS' RECORD is advised that it is the purpose of the new company to consolidate cottonseed-oil mills located at Hope, Ashdown and Okolona, Ark. The company is capitalized at \$500,000, with the following officers: W. Y. Foster, president and general manager; William Temple, vice-president; R. M. La Grone, sec oud vice-president, and W. F. Bridewell. secretary and treasurer. During the coming year it is intended to remove the Okolona mill to Arkadelphia and enlarge it from a two-press to a three-press mill, equipping it with modern machinery.

Literary Notes.

How to Keep Hens for Profit. By C. S. Valentine. Publisher, the Macmillaa Company, New York. Price \$1.50 net. Everything else being considered, more nearly may be lost in the poultry business than in any other farm enterprise, and yet it offers the best kind of rewards for the capital of time, money and labor put into it. The hen is not the responsible being. It's the man who handles the hen. and bow he handles it. Many a farmer's wife, making eggs and chickens a side issue of her daily routine, can show at the

end of the year a better balance in the profit account than many a man who has stocked his hennery with the best sort of breeds and has on hand the most approved appliances. The farmer's wife knows the hen and her habits, and succeeds. The male theorist is inclined to leave too much to the hen. Hence his failure. But the whole task of keeping the nation supplied with eggs and poultry must not be thrown upon the farmer's wife. She has too many the most of her opportunities. While no farm should be without its chicken yard. and no farmer's wife without her incom from it, poultry raising as a commercial proposition should occupy practically the undivided attention of a man or a woman. One must get right down among the chickens and learn by experience. But he must not stop at that; he can find profit in studying the results of others' experiences. One of the means to that end is this book of Valentine's, devoted to the American class of fowls. Discussion of various breeds and the methods of improving them is followed by separate chapters on egg foods, mother and chicks, handling the chicks, modern ways of housing, expensive accidents and the common sense handling of common diseases. A concluding chapter is devoted to the Indian runner duck. in line with the author's conviction of the opportunity for profit in raising fowls to meet the increasing demand for food.

Manual of Gardening. A Practical Guide to the Making of Home Grounds and the Growing of Flowers, Fruits and Vegetables for Home Use. By L. H. Bailey. Publisher, the Macmillan Company. Price \$2 net.

It would be as unwise for an expert to offer the same advice to a hundred persons as to improving the surroundings of their Raleigh, N. C., is reported as to establish homes as for a physician to prescribe the same medicine for a hundred different persons, even though they might be suffering from the same complaint. Every man's constitution is different from every other man's. So, for the surroundings of a man's home to be true, they should be the expression of that man's individuality. modified, to be sure, by environment, and, if necessary, carried out under advice of an expert having regard for all conditions. That principle is recognized in Professor Bailey's book, and he likewise expresses the hope that no reader of a gardening book will ever conceive the idea that reading a book and following it literally will make him a gardener. He also points out a fact not to be forgotten, that one gardening book cannot be made to apply in its practice in all parts of the country unless its instructions are so general as to be practically useless. Principles and points of view are the things that have wider application. Professor Bailey has had opportunity to observe both amateur and commercial gardening in all parts of the United States, and he has embodied the results of his observations in this handsomely illustrated volume. In separate chapters are discussed the general plan of home grounds and gardens, the execution of some of the landscape features, the handling of the land and of the plants, the protection of the plants from things that prey upon them, the growing of ornamental plants, annuals, herbaceous perennials, bulbs and tubers, shrubbery, lawn and street trees, coniferous evergreen shrubs and trees and window gardens, instructions on the growing of particular kinds of ornamental plants, the growing of fruit plants and vegetable plants, and concluding with suggestions and reminders for every month in the year, both for the North and for the

MECHANICAL

George W. Jackson, Inc.

In an illustrated pamphlet George W. Jackson, Inc., engineer, contractor and manufacturer, Chicago, has presented in a striking and convincing manner the company's various facilities for undertaking public and private work of large size.

The main feature of this pamphlet deals other things to do to warrant her making with subways, and in it are reports made on this subject by George W. Jackson. hydraulic and consulting engineer to the city officials of Chicago, regarding the building of subways for that city, together with illustrations and descriptive data of Mr. Jackson's patented underground system for street railways. Detailed plans are also included which will meet, it is said, the present and future requirements for a subway for Chicago. The pamphlet details the arrangement and construction of the system of subways, and refleets the study that has been devoted to this subject by Mr. Jackson. Illustrations show patented methods for various kinds of construction, such as temporary supporting form for masonry, bulkhead for tunnels, etc.; retaining walls, concrete foundation piers, excavating machine, marine aerial tramway, etc.

> Important public and private works of various kinds that have been built by George W. Jackson, Inc., are illustrated, and a brief description of each is given. They indicate the wide field of engineering and construction in which this company engages, and evidence its facilities for rapidly and thoroughly carrying forward contracts committed to its care. A partial list of work contracted for and successfully completed by the company, representing an expenditure of over \$60,000,000, is given. This list includes almost every phase of construction in a large city, such as steel bridge work, conduit systems, foundations, storm sewers, elevated railway structures, structural steel for buildings and other purposes, tunnel work, subways, tunnels under rivers, pneumatic-tube tunnels, etc. The contracts now on hand approximate \$6,000,000.

In addition to its work as engineer and contractor, the company maintains and operates a large bridge and structuralsteel plant covering 316,000 square feet. for the fabrication of steel for all purposes. and a disposal station and warehouse for the disposition of all excavated and surplus materials from general construction work and for the receipt and handling of fabricated steel, merchandise, etc. It also operates brass foundry with a daily capacity of 8000 pounds and a machine shop for the repair of machinery of all kinds,

vard, Chicago, with a New York office at 46 Wall street.

The Marsh-Capron Concrete Mixer.

Contractors and others interested in concrete mixers will find their attention attracted by the accompanying illustration of the Marsh-Capron "Rail-Track" mixer, into the engine pinion. All sears are accu-This machine's especial features cover three vital points-first, more powerful and vigorous admixture of aggregates; second. more positive utilization of every ounce of applied horse-power, and third, a closer approach to indestructibility of the machine itself by averting all wracking without loss of mechanical elasticity. The "rail-track" and flanged car-wheel bearings are the most notable innovations, but there are other improvements which are interesting men experienced in concrete work. The machine is built by the Marsh-Capron Manufacturing Co., Old Colony Building, Chicago, and is described in detail as fol-

"The drum is made entirely of a highgrade semi-steel of a special mixture, a metal of great strength and toughness and exceptionally hard, which offers the greatest resistance to the severe abrading action of the sand and stone. The drum is east in two parts, the connecting flanges being machined to fit one within the other, accurately centering the two halves, which are securely bolted together, forming a drum of the most rigid possible construction. There are no rivets, bolts, projecting flanges or sharp corners on the interior; the heads are well rounded and so designed as to project the material toward the center. The mixer blades are formed of heavy steel, secured to the drum by round head bolts. The elevating buckets are of steel. large and of such shape as to deliver the material with the greatest speed to the discharge chute. Both mixing blades and buckets are so disposed as to give the most thorough mixing action to the material, giving the end to end as well as the lifting and pouring action so necessary to thorough and complete mixing.

"The main gear is made of semi-steel. and is east in sections. The teeth are extra heavy, and of special design to give extra clearance at the bootom of the teeth. Should a tooth in one of the segments be broken through accident, a new segment can be fitted in a few minutes, and at a very small cost, as the labor of replacing these parts consists of removing only five bolts, the repairs being made with the drum in place and without disturbing any other part of the machine. Trunnion of track rings are made of standard steel railroad rails, rolled to a true circle and accurately fitted to a machined bearing on the drum and riveted in place. They are practically indestructible

The rollers or track wheels are fitted with patent dustproof roller bearings. The hubs of the wheels are bored and fitted with renewable steel bushings to take the wear of the rollers. Dust collars, packed with a special high-grade felt, are fitted over the end of the hubs. The center of the hubs are chambered out and packed with 'cup grease,' as are the dust collars. Steel compression grease cups are fitted. Wheels are of extra large diameter, made of chilled car-wheel iron similar to standard railway car wheels, and of the same general design, having a heavy flange on one side. They are all of the same diameter, and revolve independently on the shafts. Roller shafts are of steel, of extra large diameter. They are supported by the steel frame and rigidly held in place by special steel lock plates, which prevent both turning and end movement.

"The drum is driven by a single gear, cast in segments and located at the center The general offices of George W. Jack- of the drum, being bolted between the two on. Inc., are at 754-756 Jackson Boule- drum flanges. This single gear center drive gives a balanced and uniform turning motion to the drum, requiring much less power than the end gear or the double gear driven drum. All gears throughout are spur gears. The main pinion is of steel, mounted on the countershaft, which is driven by the heaving spur gear meshing rately molded from machine-cut iron patterns. Gear guards are fitted.

"Countershaft bearings are bolted to the sides of the steel channel frame. They have extra large bearing surfaces, run with high-grade babbitt metal. Bearing caps are adjustable for wear, and fitted with steel compression grease cups. Countershaft is so arranged that it may be easily removed without disturbing any other part of the machine other than gear guards and brake band. On this shaft is mounted the intermediate gear and the main-drive pinion. It also carries the friction clutch and pinion for driving the hoisting drum for the power side loader when

have the countershaft key-seated and arranged for the power loader friction clutch and hoisting drum, which, if not purchased originally with mixer, may be ordered later and easily fitted, without additional machine work

"The frame throughout is of steel, built up of heavy channels and angles, riveted together and rigidly braced. A heavy steel cover plate is riveted to the top of the gives additional stiffness and strength to the frame. The trucks are of steel, of face. Axles are extra heavy square steel. The rear axle is secured to the frame by

continuous, there being no waste time of man or machine.

"The illustration shows the simple, of pact and rigid construction of the 'M-C' power loader, and shows the ease with which the power-loading hopper can be replaced by a batch or a standard hopper, as these parts are made absolutely interchangeable on all mixers of the same sizes. The change of one hopper for another can frame at the rear, upon which is mounted be made without the use of a skilled methe engine and boiler. This plate also chanic, as all holes in frames and hopper are drilled or punched to match.

"The loading hopper is of rigid construcextra heavy construction throughout, tion, the top edges reinforced and stiffened Wheels have double tires and extra wide with channel iron. The bottom is made of one piece of heavy steel plate formed

the loader frame.

"Especial attention is called to the maner in which the hoisting cable is attached to the hopper, equalizing the strain on the cable by passing it through a cast-steel tube, which acts as a large sheave, allowing the hopper to adjust itself to the strain, relieving the hopper and frame of injurione side strains

The batch hopper is most economically used where the mixer is placed below the ground level, or where the material can be loaded into the hopper from a higher level, such as flat cars, or with derricks and buckets. An entire batch is loaded into the hopper while the previous batch is being mixed. When the mixed batch is discharged from the drum the discharge gate

loader is furnished. All standard machines mixed. Thus the operation is practically ing in heavy bearings which are bolted to down (when the threads are not rusted fast to the tank).

"The tank is pivotally connected at one end, as shown in cut, the pivot consisting of a standard 'swing joint.' The other end of the tank is carried by a car, working in a toothed quadrant (the lever being fitted with thum latch and pawl). To regulate the amount of water delivered to each batch for a given mix: If more water is desired, the rear of the tank is raised; if less water is wanted, the tank is lowered. the toothed quadrant and lever rigidly holding the tank in the desired position. The tank, once set to deliver the desired quantity of water, will automatically deliver just this amount to each batch.

"The flow of water into and from the tank is controlled by a three-way cock placed just below the pivot of the tank. with the lever convenient to the operator. One side of the cock is connected to the supply pipe, one side to the tank and the third opening leads to the drum. The tank always fills up to the top. When it is desired to discharge the water from the tank into the drum the lever on the three way cock is given a quarter-turn, shutting off the supply and opening the discharge pipe to the drum, allowing just the desired amount of water to flow from the tank. When the flow ceases the lever on cock is turned to first position, opening the supply pipe to tank and closing the pipe to the drum, allowing the tank to fill. An automatic air valve is placed at the highest point of the tank, which allows the air to escape, but closes when the water comes in contact with it. A drain valve is placed in the lowest point of the tank. It must be understood that the tank is only moved when it is desired to regulate the quantity of water delivered to a batch. The flow of water into and from the tank is controlled by the three-way cock lever only.

"Engines and boilers used on the 'M-C" mixers are designed especially for the machines. They are of strictly high-grade construction. The mixers are fitted with either steam, electric or gasoline power, or arranged for belt or chain drive. For general all-around service steam power is recommended as being the most reliable under all conditions of operation. The gasoline engines fitted give excellent service, but a more skilled operator is required to obtain the best results than for steam engines.

"A friction clutch is a prime necessity for the proper operation of a mixer with gasoline engine. It is always fitted on M-C' gasoline-driven mixers without extra

"Where it is desired to use electric power we must know the voltage, whether alternating or direct current. If alternating current, we must know the phase and number of cycles.

"The above information is necessary in order that the proper motor may be fitted. 'All necessary fittings and connections

are furnished with power equipment." Peanut Machinery for Africa.

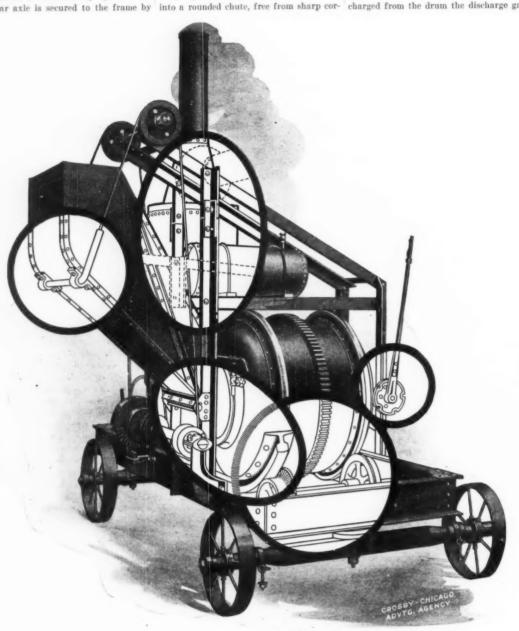
John Brutt Davy, Government agrostologist and botanist, P. O. Box 334, Pretoria, South Africa, writes the MANUFAC-TURERS' RECORD:

"I shall be glad if you will kindly supery for harvesting, threshing, winnowing, shelling and grading."

An Inquiry from Spain.

Joaquin Herm, Barcelona, Spain, writes the Manufacturers' Record:

"I am interested in corresponding with manufacturers of brass tubing and latten brass, oil greases for making leather straps flexible, glace kid in black and colors for shoemakers, and paraffin."



THE MARSH-CAPRON "RAIL-TRACK" CONCRETE MIXER.

heavy U bolts. Compression grease cups are fitted. A tongue is furnished with trucks, but breast yoke or whiffletree is not supplied except at an extra charge.

"By the use of a power loader in place of a standard hopper, the cost of mixing per yard is practically reduced by half, as the output of the machine is doubled. The drum. power hopper is loaded on the ground level directly from the wheelbarrow, without the use of expensive platforms. While the batch in the drum is being mixed the loading hopper is filled, and as soon as the mixed batch is discharged the hoisting drum clutch is engaged, the loading hopper raised, dumping an entire batch of material into the drum, the hopper lowered to be refilled while the batch is being riveted to the hopper, the pivot shaft turn- threaded pipe to be slowly screwed up or

ners in which the materials can stick, giv- in the hopper is opened by means of a lever ing a clean, quick discharge. The discharge end of the hopper is pivoted close to the drum, and when raised to discharging position the mouth of the hopper fits closely into the 'chute' or 'apron' casting, discharging the material cleanly into the

"The chute or apron casting also forms connection is made through this casting, a passageway being formed in the casting, terminating in a spout on the inside of the drum, delivering the water to the proper place, viz., on the dry material at the charging end. The pivot shaft is fixed to a saddle casting, which is substantially

conveniently placed and the entire batch emptied into the drum, the operation of mixing being practically continuous. Standard hopper, batch hopper and powerloading hopper are all absolutely inter- ply me with catalogues of peanut machinchangeable.

"The automatic water-measuring tank is a splash plate, as can be seen; the water of the closed type, cylindrical, and built of steel plate to safely carry a working pressure of 100 pounds. It is absolutely positive in its action. The quantity of water delivered to the drum can be instantly regulated. It is simplicity itself, and positively 'fool-proof,' as it has no floats, valves or leaves to become deranged, nor long 0

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Construction Department

TO OUR READERS!

In order to understand and follow up properly the Construction Department items, please bear in mind the following statements:

EXPLANATORY

The Manufacturers' Record seeks to verify every item reported in its Construction Department by a full investigation and complete correspondence with everyone interested. But it is often impossible to do this before the item must be printed, or else lose its value as news. In such cases the statements are always made as "rumored" or "reported," and not as positive items of news. If our readers will note these points they will see the necessity of the discrimination, and they will avoid accepting as a certainty matters that we explicitly state are "reports" or "rumors" only. We are always glad to have our attention called to any errors that may occur.

In correspondence relating to matters reported in this paper, it will be of advantage to all concerned if it is stated that the information was gained from the MANUFACTURERS' RECORD.

ADDRESS FULLY

To insure prompt delivery of communications about items reported in these columns,
the name of one or more incorporators of a
newly incorporated enterprise should be
shown on the letter addressed to that town,
or to the town of the individual sought, as
may be shown in the item, as sometimes a
communication merely addressed in the corporate or efficial name of a newly established
company or enterprise cannot be delivered
by the postmaster. This will help to insure
prompt delivery of your communication,
although it is inevitable that some failures
on the part of the postal authorities to deliver mail to new concerns will occur.

WRITE DIRECTLY

It is suggested to advertisers and readers that in communicating with individuals and firms reported in these columns, a letter written specifically about the matter reported is likely to receive quicker and surer attention than a mere circular.

The Daily Bulletin of the Manufacturers' Record is published every business day in the year for the purpose of giving the earliest possible news in regard to new industrial, railrond and financial enterprises organized in the South. It is invaluable to contractors, manufacturers, engineers and all others who want to get in touch at the earliest moment with new undertakings or the enlargement of established enterprises. The subscription price is \$25 a year. All advertising contracts in the Manufacturers' Record extending over a period of three months include a subscription for the length of time of the contract to the Daily Bulletin.

BRIDGES, CULVERTS, VIADUCTS

Ala., Birmingham.—Illinois Central Railroad Co., A. S. Baidwin, chief engineer, No. 1 l'ark Row, Chicago, Ill., will construct castiron pipe culverts and frame trestles.

Fla., Pensacola.—Pensacola & Southwestern Railroad awarded contract to Henry Mc-Laughlin of Pensacola to construct 4000-foot bridge across Perdido Bay.

Fla., Tampa.—Hillsborough County Commissioners will construct steel bridge across Palm River; estimated cost \$9000.

Fla., West Palm Beach.—Palm Beach county will construct bridge across canal at Delray; bids to be opened July 28; W. H. Da Camara, chairman County Commissioners. (See "Machinery Wanted.")

Ky., Pineville.—Bell county will floor and repair wagon bridge across Cumberland River at foot of Pine St.; bids to be opened July 25; B. A. Fuson, Judge of County Court. (See "Machinery Wanted.")

Md., Baltimore. — Baltimore & Ohio Railroad, A. W. Thompson, chief engineer, Baltimore and Charles Sts., will begin about August 15 actual construction of first of four overhead crossings at its tracks in South Baltimore; this structure, to be located at

Hamburg St., will be 1100 feet long, including approaches, and be provided with street-car tracks; approaches will be built from center of four streets southward to building line, leaving in original street bed driveway of about 30 feet on north half of each street; sidewalk of bridge at Hamburg St. will be 10 feet wide and be separate from main bridge; reported expenditure, including rearrangement of tracks, changes in Camden Station, etc., estimated at \$1,000,000. (Previously mentioned.)

Md., Belair.—State Road Commission, John
M. Tucker, chairman, Union Trust Bidg.,
Baltimore, Md., awarded contract at \$14,000
to David E. Evans & Co., 402 Hoffman Bidg.,
Baltimore, Md., for erection of reinforcedconcrete bridge near Belair.

Miss., Biloxi.—Louisville & Nashville Railroad, W. H. Courtenay, chief engineer, Louisville, Ky., will, it is reported, rebuild bridge across Chef Menteur so as to allow clear passage of 69 feet width.

Mo., St. Joseph.—St. Joseph & Savannah Interurban Railway Co., Chas. W. Campbell, chief engineer, will construct one pile trestle, 50 feet high and 500 feet long; also two minor trestles from 14 to 56 feet each in length.

Okla., Oklahoma City.—Oklahoma County Commissioners, Park Board and Oklahoma Railway Co. (John W. Shartel, vice-president) awarded contract to Topeka Bridge Co., Topeka, Kans., to construct bridge over North Canadian River between city and Packingtown; structure will be 200 feet long and 67 feet wide, sidewalks and 16-foot road on either side, and two car tracks; steel and concrete construction; estimated cost \$56,000. (Recently mentioned.)

8. C., Columbia.—Augusta & Aiken Suburban Railway, James U. Jackson, president, Augusta, Ga., will reconstruct Congaree River bridge.

Tenn., Sevierville.—Knoxville, Sevierville & Eastern Railway, W. A. Seymour, chief engineer, Knoxville, Tenn., will erect two small timber bridges.

Tex., Crosbyton. — Crosbyton-South Plains Railroad Co., John A. Knox, chief engineer. will construct two trestles, 500 feet and 1000 feet long, respectively, and 40 feet high.

Va., Clifton Forge.—City Council is considering issuance of \$65,000 of bonds for constructing bridges, etc. Address The Mayor. (See "Sewer Construction.")

Va., Norfolk. — Norfolk county will construct drive bridge over branch of Tanners Creek on line of Reservoir Ave. Ext.; structure to be 315 feet long and 18 feet wide; plans, specifications and bids are invited; F. L. Portlock, road engineer for Norfolk county, 240 Monticello Arcade. (See "Machinery Wanted.")

W. Va., Branchiand.—Branchland Bridge Co. incorporated with \$20,000 capital stock by L. R. Via, A. M. Parson, J. W. Lute and Rufus Switzer, all of Huntington, W. Va., atd W. E. Bardslee, Clarksburg, W. Va.

CANNING AND PACKING PLANTS

Ala., Cuba.—Cuba Canning Factory organized with \$10,000 capital stock to establish cannery recently mentioned; will incorporate; L. Poole, president; Henry McDonnell, secretary and manager; secured 2½-acre site; capacity 10,000 to 12,000 cans per 10 hours; lumber and brick to be bought locally; will purchase machinery. (See "Machinery Wanted.")

La., Jefferson Parish.—Swift & Co., Chicago, Ill., purchased 21.21 acres of land between Harvey's Canal and Amesville for \$42,420, and will erect building and establish packing plant.

S. C., Georgetown.—Company organized with \$75,000 capital stock; H. B. Springs, president; Joseph Bull, manager; will establish cannery, cotton compress and gin.

Tex., Blooming Grove.—E. S. Smith and W. H. Brigance, both of Velasco, Tex., are interested in establishment of cannery.

Tex., Galveston. — Wallace M. Quinn of Crisfield, Md., will, it is reported, establish crab plant; cost \$12,000 to \$15,000.

CLAYWORKING PLANTS

Ala., Birmingham-Brick.-Jefferson Brick Co. increased capital stock from \$25,000 to \$50,000 Tex., Eustace—Brick.—Burvo Brick Co. incorporated with \$150,000 capital stock; E. Miller of Athens, Tex., president; J. M. Massey of Fort Worth, Tex., vice-president and general manager; M. E. Edgar of Eustace, secretary; J. M. Murchison of Athens, treasurer; will operate 12-kiln furnace with daily capacity of 100,000 bricks.

Tex., Lexington—Brick.—Lexington Brick & Tile Co. Increased capital stock from \$7500 to \$25,000 and will construct sidetrack to plant, erect drying shed and kiins and install additional machinery.

COAL MINES AND COKE OVENS

Ky., Ashland. — Haly Coal Co. chartered with \$500,000 capital stock by J. F. Hager, J. W. Stewart and others, who represent parties who will control and manage company; not ready to announce plans.

Ky., Central City.—W. A. Wickliffe, Greenville, Ky., advises company is not yet incorporated to develop coal lands recently noted purchased; 6000 acres between Central City and Green River; P. R. Wickliffe, Greenville, construction engineer. (See "Machinery Wanted.")

Ky., Henderson.—Cahaba Coal Co., R. C. Middleton, president, Birmingham, Ala., purchased Corydon Coal Co.'s properties in Henderson county, including coal shaft and appurtenances and several thousand acres of coal rights.

Ky., Wasloto.—Asher Coal Mining Co., recently reported incorporated with \$350,000 capital stock, will develop 30,000 acres of land; first daily output three carloads; will install machinery; address proposals to Geo. R. Marrs; L. A. Osborn, engineer in charge; T. J. Asher, president; H. H. Asher, vice-president; Robert Asher, secretary-treasurer.

Md., Lonaconing.—George's Creek Coal Co., Harry E. Weber, president, Cumberland, Md., completed purchase of property of George's Creek Coal & Iron Co. at \$229,000; will expend \$15,000 for improvements, including new openings, tipples, railway sidings, etc.; company has incorporated with \$300,000 capital stock; offices, 418-422 Equitable Bidg., Baltimore, Md.; W. H. Cooper, Baltimore, is treasurer and sales manager.

Tex., Gordon.—W. W. Johnson is reported to construct 40-acre lake and erect miners' houses in connection with development of coal mines about three miles from Gordon.

W. Va., Hutchinson.—Consolidation Coal Co., Continental Trust Bidg., Baltimore, Md., is understood to be planning new development to cost \$250.000.

W. Va., Mable.—J. B. Jenkins Coal & Coke Co. (previously reported) will develop 14e acres; daily capacity about 500 tons; J. B. Jenkins, president and manager; W. T. Robinson, vice-president; S. O. Billings, secretary-treasurer; main office address, Parsons, W. Va.

W. Va., Morgantown.—J. H. and J. A. Clark leased property of Pitcaira Coal Co. for 20 years and will continue to operate as Harry B. Coal & Coke Co.; will make improvements and increase output; under contract minimum of 200,000 tons of coal is to be mined annually.

CONCRETE AND CEMENT PLANTS

Okla., Fairview.—Fairview Cement Co., Box 447 (recently reported incorporated with \$103,-000 capital stock), will establish plant to manufacture cement-plaster material; will erect buildings 80x80x32 and 60x130x14 feet in size; semi-fireproof construction; will need millwright; machinery to be installed; M. E. France, president; C. H. France, vice-president; Chas. H. Elbert, secretary; Henry France, treasurer. (See "Machinery, etc., Wanted.")

Okla., Oklahoma City.—L. K. Sharpe Concrete Telegraph, Telephone & Raliway Pole Co. organized with \$25,000 capital stock by L. K. Sharpe of Vicksburg, Miss.; will establish plant to manufacture hollow concrete poles; cost \$15,000; daily capacity 106 poles.

Va., Richmond.—Climax Concrete Machine Co. incorporated with \$30,000 capital stock; John Dahn, president; C. L. Albertson, vicepresident; L. O. Wendenburg, secretarytreasurer; will manufacture concrete blocks and engage in construction work.

COTTON COMPRESSES AND GINS

Ark., Little Rock.—Sweet Home Cotton Gin & Compress Co. incorporated with \$7500 capital stock by Harry Keats (president), M. L. Berthe, T. F. Hutchinson and John R. Frazier.

Ark., Little Rock.—Cotton Ginners' Gin & Compress Co. incorporated by Harry Keats (president), John R. Frazier, T. F. Hutchinson and J. K. Thibault.

Ark., Madison.—Consumers' Cotton Oil Co. of Forrest City, Ark., will establish cotton gin.

Ark., Shaw.—Company organized with \$5900 capital stock; J. H. O'Kelley, president; Slaon Rogers, vice-president; Gus Carson, secretary; H. W. O'Kelley, treasurer; will establish cotton gin and grist mill.

Gn., Douglas.—Douglas Gin & Oil Co. (recently reported organized with \$35,000 capital stock to establish cotton gln, cottonseed-oil mill and guano factory) will erect 40x144-foot two-story brick ginhouse, two-story 60x100foot seedhouse, brick and concrete 70x200-foot cotton warehouse; ginning capacity about 70 bales daily, with room in building for eight additional gins; will not build oil mill this season; officers to be elected July 26.

Okla., Willow.—Willow Farmers' Gin Co. incorporated with \$6000 capital stock by W. J. Underwood, E. F. Reed and others.

S. C., Allendale.—A. A. Richardson (recently noted to install steam plant in connection with ginnery and lumber plant) will erect 29x29-foot shingle mill, 40x39-foot ginhouse and 40x39-foot sawmill; construction by owner; will install machinery; daily capacity, 10,000 shingles, 15,000 feet of lumber and 29 bales of cotton. (See "Lumber Plants.")

8. C., Georgetown.—Company organized with H. B. Springs, president, will establish cotton compress and gln. (See "Canning and Packing Plants.")

8. C., Lowndesville,—Lowndesville Oil Mili (C. S. Sullivan and others) will install four 79-saw gins, doubling capacity of cotton gin.

Tex., Avalon.—Farmers' Co-operative Gin Co. incorporated with \$8000 capital stock by D. G. Swafford, T. A. Sisson, E. P. Jenkins and others.

Tex., Fort Worth.—Inland Compress Co. Incorporated with \$40,000 capital stock by G. F. Witherspoon, F. J. Philips and C. C. Rountree.

Tex., Lone Elm.—Lone Elm Gin Co. incorporated with \$4250 capital stock by J. P. Mc-Caleb, A. A. Johnson, J. W. Fleeman and others.

COTTONSEED-OIL MILLS

Ala., Birmingham.—Farmers' Cotton Oil Cotrecently reported incorporated) has organized with \$80,000 capital stock; 8. P. Brown, president; R. G. Riley, vice-president, both of Albany, Ga.; T. J. Kidd, general manager, of Birmingham; O. A. Armstrong, secretary, of Albany, Ga.; will establish plant for manufacturing cottonseed oil and dairymen's products; cost \$60,000; four-press mill.

Ark., Hope.—United Oil Mills (recently reported incorporated with \$300,000 capital stock) organized to consolidate three mills, at Hope, Ashdown and Okolona, Ark.; contemplates during coming year removal of Okolona mill to Arkadelphia and enlargement from two-press to three-press mill; W. Y. Foster, president and general manager; Wm. Temple, vice-president; R. M. La Grone, second vice-president; W. F. Bridewell, secretary-treasurer.

DRAINAGE AND IRRIGATION

Ark., Helena.—Yellow Banks Drainage District, R. C. Burke, president, awarded contract to O. O. McDonald & Co., Collinston, La., for construction of two drainage ditches (Yellow Bank and Cypress); levee will be 15 miles long, constructed alongside of Cypress Canai and will drain 65,990 acres of farm land; district will issue \$\$5,000 worth of bonds to cover cost of construction, work to begin in 30 days; contract was awarded to R. E. & G. A. McWilliams of Walnut and Chicago, Ill., for construction of canai to drain surface waters of Helena into Long Lake. (Previously mentioned.)

Ark., Osceola.—Mississippi county will construct 75 miles of drainage canals; about 3,170,000 cubic yards; bids to be opened July 26; Willis E. Ayres, chief engineer, Randolph Bidg., Memphis, Tenn. (See "Machinery Wanted")

Tex Portland Charles P Toft of Cincinnati, O., and associates are reported as plan-ning construction of drainage system, with John G. Willacy of Corpus Christi, Tex., In charge of work. (See "Miscellaneous Enter-

Va Norfolk -Finance committee of City Council approved appropriations for drain-age system; \$13,752 for Cumberland 8t. drain; \$2340 for Channel St.; \$1860 for drain be-tween Redgate and Westover Aves.

ELECTRIC LIGHT AND POWER

Ala., Birmingham .- Sloss-Sheffield Steel & Iron Co. will erect power plant at Sloss operation of water pumps to be installed handle heavy water flow at mines; pumps be electrically driven; power plant will also be used for electrification of mines; conis for machinery and equipment re-ed awarded; estimated cost \$40,000; construction begun.

Ark., Hamburg. - Hamburg Improves District Board Commissioners will install electric-light plant and water-works.

Ala., Montgomery.—City awarded con o Montgomery Light & Water Power R. J. Chambers, general manager, to furnish electric-power for operation of city water rks: installation will be co few moaths; estimated that output of water will reach daily average of 8,000,000 gallons within few years. (Recently noted.)

Ark., Morrilton.—Morrilton Light & Power Co. Incorporated with \$29,000 capital stock by Williams L. Maose, Clifton Moose and G. H. Burr

Ala., Opelika.-City has voted issuance \$85,000 bonds for construction of electric-light dant and water-works. Address The Mayor

Ark., Nashville.—City granted franchise to J. C. Stephenson Lumber Co. of Nashville to furnish electric lights.

Fla., White Springs.-City contemplates vote on \$45,000 bond issue for lighting plant. ewerage, water-works, etc.; G. S. Mobley, layor. (See "Water-Works.")

Ga., Dalton.-H. S. Jaudon Engineering Co. Savannah, Ga., has completed plans and specifications for electric-light plant; equip-ment will include compound-condensing engines direct connected to generators 500 horse-power. (See

Md Baltimore - Susanchanna Transmis sion Co., James Young, local engineer, Cortinental Bldg., is progressing with construction of transformer plant heretofore an nounced; building nearing completion and will be equipped with electrical machinery for transforming electricity to be transmitted Susquehanna River development Recalls Ferry (Pennsylvania) of Pennsylvania Mater & Power Co., 24 Exchange Pl., New York; this company understood to have contract to furnish 25,000 horse-power to Consolidated Gas, Electric Light & Power Co., Continental Trust Bidg., Baltimore; Susque-hanna Transmission Co. transmission lines are under construction and will be 40 miles long, with 40 to 60-foot steel towers carrying ; understood transformer station will be 150,000 volts. (Details of) 'alls Ferry and Susquehanna companies re ported previously.)

Md., Elkton.-City defeated \$75,000 bond issue for constructing electric-light, sew and water systems. Address The May (Recently mentioned.)

Md., Frederick, — Frederick Railroad Co nd Hagerstown Railway Co, have commis ioned P. O. Keilholtz, Continental Bidg. Baltimore, Md., to prepare plans and specifirations for joint power-ho

Mo., Kansas City.—Big Niangua Hydro dectric Co. incorporated with \$150,000 capi Electric Co. Incorp. ck by R. E. Bremer, P. M. Bremer and

Okla., Durant.-City will install electric-lighting plant. Address The Mayor.

Okla., of Foss.—City contemplates installa-electric-lighting system. Address The Mayor.

S. C., Charleston.-Mayor R. H. Rhett ap pointed special committee to select engi to estimate cost of constructing electric-light

S. C., Elloree.-City will vote July 22 on of \$5000 bonds for erecting electric

S. C., Greenville,-Home Light & Power Co. incorporated with \$100,000 capital stock by J. Thomas Arnold, Jos. A. McCullough, J. M. Geer, Lewis M. Parker and others; has franchise for electric lighting

S. C., Lexington,-James U. Jackson of Aucusta, Ga., and associates are reported as laving purchased and as to develop Dreher Shools by construction of water-power-elec-

Tenn., Cleveland.-Eastern Tenne D. Alsop, H. C. Beck, Sherman Beck R. L. Westcott of Chattanooga, Tenn., and Henry Crumbliss of Kingston; under stood company will own water-power-electri-cal plant mentioned recently as to be con-structed by J. G. White & Co., 43 Exchange Pl., New York; develop 30,000 horse-power at and 20,000 additional in future

Tenn., Decherd.-City has awarded contract electric-light and water-works system. Address The Mayor.

Tenn., Knoxville. - Knoxville Railway & Light Co. will erect addition to p o cost about \$8000; will install 2000-kilowatt

Tenn., Lexington.-C. P. Wilson applied to cil for franchise to construct light plant.

Tex., Bryan.-City is considering propotion to establish electric-light. er system; cost \$100,000. Address The Tex., Devine.-Burnett & Fent

dianapolis, Ind., will plant and ice factory. will install electric-light

Tex., Gordon.-Gordon Water, Light & 1 Co. (recently reported incorporated by J. and others) contemplates installation f light plant next year; W. S. Dawso

Tex., LaPryor.—LaPryor Water & Light o. incorporated with \$8000 capital stock by incorporated with \$8000 capital stock by G. Bates, D. A. Harrison and R. L.

Va., Midlothian. -Richmond Power chartered with \$500,000 capital stock by S. Dabney Crenshaw and Levin Joynes Richmond, Va.; F. W. Meulen, St. Jo Clarke and Henry B. Twombley of N York : plans construction of plant (using as al from mines) to transmit electricity of coal from mines) to transmit electric power to Richmond, Petersburg and No k; install initial unit of 19,000 horse-po plant details not determined. Address Mr. Crenshaw at Richmond.

W. Va., Wheeling,-Consumers' Electrical Co., 51 16th St., plans construction of pov working on plans; ordinance co mittee of City Council is considering granting of electric-light franchise to c

FERTILIZER FACTORIES

Ala., Riemingham -- Riemingham Slag Co. incorporated to manufacture fertilized Solon Jacobs, president. (See "Mous Factories.")

Ala., Foley.-Foley Fertilizer Co., A. L. James, manager, will make improvements recently mentioned; build \$0x100-foot addi-tion at cost of \$2000, and instal! fertilizermixing, feed-grinding machinery, etc.
"Machinery Wanted.")

Fla., Meadows.-Florida By-Products Co. office Atlanta, Ga., will establish ferti-

Mo., Kansas City.-American Reduction & Fertilizer Co., 19th and Wyoming Sts., will Fertilizer Co., 19th and Wyoming Sts., wi rebuild plant reported burned; loss \$10,000.

New Berne,-New Berne Cotton Oil & Fertilizer Mill's addition to factory, re-cently noted, will be 60x80 feet; mill construction; company's force will erect; no further machinery needed.

FLOUR, FEED AND MEAL MILLS

Ala., Foley.—Foley Fertilizer Co., A. L. ames, manager, will install feed-grinding achinery. (See "Fertilizer Factories" and 'Machinery Wanted.'')

Ark., Shaw.—Company organized with J. II. O'Kelley president to establish grist mill, etc. (See "Cotton Compresses and Gins.")

, Bowling Green.—Willford Milling Co. porated with \$15,000 capital stock by M. Willford, R. D. Reynolds and D. Browning

N. C., Durham.-Carolina Roller Mills Co. changed name to Austin-Heaton Co.,

creased capital stock and will enlarge plant.

N. C. Landis.—Landis Milling Co. incorporated with \$25,000 capital stock to establish teller flour mill; Dr. B. O. Edwards dent; O. L. Linn, vice-president; G. H. Cor riber, secretary-treasurer; building plans not decided; will soon be ready for machinery bids. (See "Machinery Wanted.")

Tex., Justin.-Justin Mill & Elevator Co. orporated with \$30,000 capital stock by E. Bewley, M. P. Bewley, Jule G. Smith and Bert K. Smith.

capital stock, will succeed Blacksburg Power & Supply Co.; will handle all kinds of farm products and implements; C. A. Crumpacker,

FOUNDRY AND MACHINE PLANTS

Ark., Little Rock-Rotary Engines.-Nichols International Rotary Engine Co. Incorporated by S. R. Nichols, W. S. May, J. F.

Ga. Atlanta - Withers Foundry & Machine incorporated with \$80,000 capital stock Valter G. Withers, W. T. Withers and J. B. Withers.

Miss., Natchez-Iron Foundry,-C. T. Shaw will enlarge and improve iron foundry

Miss., Iuka-Plows.-J. W. Hiett will, it is ported, establish plant to manufacture ows and harrows; expended \$8000 for machinery, buildings, etc.

Mo., St. Louis.-Pratt-Messler Manufacturng Co., 2700-2704 South 7th St., will enlarge nd improve foundry; reported additional suildings will cost \$6000.

Mo. St. Louis - Turley Gear & Machine incorporated with \$25,000 capital st. H. G. Turley, Anthony F. Rieth and Turley to manufacture and deal in ma-

Okln. Delmar Heights, P. O. Oklahoma City.—M. C. Clark is proceeding with tion of two foundry buildings; will be pied by Imperial Iron & Foundry Co.

Okla., Oklahoma City-Sashweights, Central Sashweight & Foundry Co. Inc rated with \$25,000 capital stock by Max K. Weigel, Wellington, Kans., and J. J. Augus ma City.

Tex., San Angelo — Iron Works. — Temple ron Works, Temple, Tex., will establish \$15,-90 foundry at San Angelo; has site 75,000 feet square.

GAS AND OIL DEVELOPMENTS

Ala., Birmingham.-Alabama United Oil & Gas Co., J. B. Stagg, secretary, 613 Farley Bldg., recently reported incorporated with \$1,000,000 capital stock, will develop 2000 acres of gas and oil land; drill 3500 feet; pipe gas to Memphis, Tenn., 100 miles, and to Gadsden, Ala., 75 miles; Robert P. Zell, engineer in charge; applied for franchise to furnish Columbus, Miss., with natural gas.

Ala., Favette,-Cosmos Oil & Gas Co. Incor porated with \$30,000 capital stock; G. B. Crowe, president; J. L. Davidson, secretary; H. J. Falls, vice-president.

Tex., Ennis.—City granted franchise to North Texas Gas Co. to Install natural-gas system, piping gas from Henrietta field.

Tex., Houston Heights - Gas. - Suburl incorporated with \$100,000 capital stock by H. W. Bennett, Willis Morris J. W. Foote; has franchise to furnish with gas and applied for franchise to mains in suburbs of Chanevville and Bruner; will erect plant with one storage tank ith capacity of 100,000 cubic feet of gas;

Tex., Houston. - The Texas Compa warded contracts for 200 miles six and eight inch steel pipe for new oil-pipe lines in Southwest; understood contract for 100 miles eight-inch pipe received by National Tube Co., Pittsburg, Pa., and that contract for 100 miles six-inch pipe will be awarded to La Belle Iron Works, Steubenville, O.; this piping for pro-posed trunk line from Caddo field, near Shreveport, La., to Port Arthur, Tex. (Mentioned July 13.)

W. Va., Clarksburg.-Guy Oil & Gas Co. inporated with \$10,000 capital stock by W. Tetrick, H. M. Heouvner, J. E. Williams

W. Va., Charleston.-Conner OH & Gas Co. orated with \$25,000 capital stock by Conner, H. L. Lambert, E. J. McKinley and others.

corporated with \$50,000 capital stock by D. W. Cook of Mt. Clare, T. F. Koblegard, T. A. elan and J. A. Barnes of Weston, W

W. Va., New Martinsville,-Alpha Oil & Gasoline Co. (recently noted incorporated) will manufacture gasoline from natural gas. (See "Miscellaneous Factories.")

W. Va., Williamson.—Mingo Oil & Gas Co. ncorporated with \$50,000 capital stock by White, B. B. Golgs, John A. Sheppard

ICE AND COLD-STORAGE PLANTS

., Tampa.—Fred G. Perry of Tampa and Hamlett of Tennessee will establish ice and refrigerating plant; purchased ma-chinery for manufacturing ice from double distilled water; capacity 50 tons daily

Ga., Atlanta.-Fulton Market Co. will in cold-storage plant; cork insulation, expansion ammonia system; electrically-driven compressor and double-pipe ed denser; L. J. Hill, Jr., architect, 313 Century Bldg., Atlanta, may be addressed.

Ky., Lexington.-Lexington Cold Storage rated with \$29,000 capita B. Hawkins, Leon Renaker and M. J.

La., De Ridder.—Hudson River Lumber Co., R. A. Long, president (recently noted to re-build burned ice plant), will erect \$40,000 mill-construction building; daily capacity of plant, 45 tons : known as Crystal Ice Plant.

Md., Baltimore.—American Ice Co., 309-13 alvert Bldg., will erect ice plant and depot t Franklin St., between Payson, Pulaski and Smallwood Sts.

Miss., Charleston.-Charleston Cold Stor incorporated with \$20,000 capital teck by S. J. Baker, W. F. Lambert, C. Harris and others.

Tex., Devine.-Burnett & Fenn dis, Ind., will install ice factory and electric-light plant.

Tex., Terrell.-Arkansas & Texas Consoll ated Ice & Coal Co., Marshall, Tex., Hicks, president, Pine Bluff, Ark, will not

Tex., Cooper.-Arkansas & Texas Consolidated Ice & Coal Co., Marshall Tex., dated Ice & Coal Co., Marshau Iva., o. Hicks, president, Pine Bluff, Ark., will not establish ice plant; recent report incorrect.

LAND DEVELOPMENTS

Ala., Birmingham.-American Co-operative Co. incorporated with \$40,000 capital Realty stock : Leroy Smith, president and tre

Ala., Birmingham,-Turkey Creek Land Co. incorporated with \$16,000 capital stock by A. W. Smith, F. M. Jackson and D. T. Smith.

Ala., Birmingham.-Palmetto Land Co. in orporated with \$4800 capital stock; J. T. toster, president; Burr Nabers, Jr., vice-Doster, president; Burr Nabers, Jr., vice-president; Henry Howze, secretary-treasurer.

Ala., Birmingham.-Silver Mead Land Co. incorporated with \$10,000 capital stock; A. Griggs, president and treasurer; W. W. Ran-som, vice-president; T. M. Bradley, secretary.

Atlanta.-Cofield Investment Co. proceeding with development of Hammond residence park near Atlanta; 150 acres di-vided into about 450 lets; some manufactur-ing sites; winding roads are being graded.

Ga., Dawson. — Dawson Development Co. acorporated with \$25,000 capital stock by J. Harsley and others.

Mo., St. Louis.-Glasgow estate velop Chain of Rocks farm for residence section; will plat and subdivide into twoacre tracts; construct 100-foot boulevard along bluff and one east and west through property; improve with parkway drives, etc.; cost of improvements, \$50,000.

Okla., Altus.-Bante Development Co. iu Okin., Artus.—Bante Development Co. in-corporated with \$10,000 capital stock by Henry F. Bante, John A. Schmiemeir and Geo. H. Hillemeyer, all of St. Louis, Mo. Okin., Tupelo.—Tupelo Development Co. in-corporated with \$10,000 capital stock by Rob-

ert E. Calloway, John R. Hadley, Robert E. Fowler and others.

S. C., Cheraw.-Pageland Land Co. Inco. porated with \$9000 capital stock by W. M. Gidfrey, J. W. Maynard and D. N. McGregor.

S. C., Simpsonville,-Piedmont Farm Co. incorporated with \$60,000 capital stock by P. S. Dew and H. P. Dew.

Tenn., Bristol.-Rural Home Land Co. in orporated with \$10,000 capital stock by Bare, W. D. Lyon, R. E. Stevens

Tex., Beeville, - Two River Ranch Co. Wichita, Kans., purchased "Kerr Ranch" of 44,000 acres, 45 miles west of Beeville; pro ose to sectionize; subdivision will be begun at once under supervision of Ehrenborg & engineers, 518 Gibbs Bldg.,

Tenn., Memphis.—Mathes & Duntze Timber & Land Co. incorporated with \$25,000 capital stock by Charles Duntze, J. A. Mathes, H. S. Shaw and others.

Tex., Friona.-Citizens' Co-operative recan relate to the control of the c inced.

Tex., Galveston.-Bay View Land Co. corporated with \$14,000 capital stock by J. C. Wenan, C. J. Michaelis and Otto Letzerich.

Tex., Sutherland Springs. — Sutherland rings Town & Land Co. incorporated with Tex.,

\$100,000 capital stock by J. L. Kerr, I. T. Pryor and H. M. Townsend.

Va., Capron.—Vincent & Drewry are proceeding with development of 2000 acres of land; subdivide into small farms and erect dwellings; secured several small mills for cutting building timber. Mr. Vincent will develop in same way about 2000 acres.

Va., Norfolk.—Tarrant Water Front Corporation incorporated with \$20,000 capital stock; B. R. Kennon, president; George Pilcher, vice-president; George Lindsey, secretary-treasurer.

LUMBER MANUFACTURING

Ark., Corning.—Star Ranch & Lumber Co., Neeleyville, Mo., has purchased timber land in Clay county for \$50,000; will install stave plant and sawmill.

Ark., Texarkana.—Texarkana Shingle Creosoting Co., J. C. Paty, president, contemplates constructing shingle mill to have daily capacity of several million shingles. (See "Miscellaneous Factories.")

Fla., Freeport. — Baker-Wakefield Cypress Co., H. L. Baker, president, Plattenville, La., purchased cypress property of J. J. McCaskill Company, together with mill, planer, drykilns, logging equipment, etc.; purchase price, \$375,060.

Fla., Freeport.—H. L. Baker, Plattenville, La., and others have acquired from J. J. Mc-Caskill Company sawmill properties and 30, 69 acres of cypress land; will increase output of plant.

Fla., Middleburg.—Middleburg Lumber Co. incorporated with \$25,000 capital stock; Edward S. Spencer, president; Lincoln E. Spencer, vice-president; Edgar L. De Witt, treasurer, all of Jacksonville, and George A. Chalker of Middleburg, secretary.

Ky., Hazel.—Carnahan-White Lumber Co., Winchester, Ky., will erect band mill and develop timber land; will construct railroad 12 miles long.

Ky., Madisonville.—Star Planing Mill Coincorporated with \$20,000 capital stock by L W. Schmetzer, G. T. Bell and J. H. Orsburn

La., Forest Hill.—Crowell & Spencer Lamber Co, will erect additional mill; will add seven-acre pond; construction begun.

La., Jena.—River Land & Lumber Co. purchased about 30,000 acres of timber land in Catahoula parish for \$700,000.

Miss., Arm. — Meadows-Steinweg Lumber Co. incorporated with \$25,000 capital stock by J. W. Meadows, C. A. C. Steinweg and others.

Miss., Bentonia. — Link-Newcomb Mill & Lumber Co. (recently noted to install mill) has purchased 1109 acres cottonwood timber land on Mississippi River in Claiborne county; price \$42,000; within 12 months will erect band mill of about 25,000 feet daily capacity.

Miss., Brookhaven. — Central Lumber Co. increased capital stock from \$50,000 to \$100,000.

Mo., Dexter.—Dexter Lumber Co. (recently noted) was incorporated by R. L. Ladd, W. F. Tiller and J. B. Buck: \$10,000 capital stock. (Recent notice slightly incorrect.)

N. C. Belhaven.—Woodside Lumber Co. incorporated with \$25,000 capital stock by W. S. Riddick and Milson Windley of Belhaven, and W. B. Allen of Philadelphia, Pa.

8, C., Allendale.—A. A. Richardson (recently noted to install steam plant in connection with lumber mill and ginnery) will erect 40x50-foot sawmill, 40x30-foot ginhouse and 20x20-foot shingle mill; construction by owner; will install machinery; daily capacity 10,000 shingles, 15,000 feet of lumber and 20 bales of cotton. (See "Cotton Compresses and Gins.")

Tenn., Bristol.—Paxton Lumber Co. wiil purchase timber boundary and install band

Tenn., Chattanooga. — Taylor Lumber Co. incorporated with \$40,000 capital stock by Z. K. Taylor, F. H. Taylor, O. C. Rosa and

Tenn., Memphis.—Mathes & Duntze Timber & Land Co. incorporated with \$25,000 capital stock by Charles Duntze, J. A. Mathes, H. S. Shaw and others.

Tenn., Memphis. — Ryan-Weigant Lumber Co. incorporated with \$10,000 capital stock by James J. Ryan, J. F. Weigant, Ralph May

Tex.. Clevenger.—J. P. Clevenger will rebuild lumber plant recently reported burned; will erect 60x120-foot building; mill construction; cost \$2500; crection by owner; bids for machinery costing \$12,500 to be opened within few days; daily capacity, 45,000 feet, log scale, yellow pine and hardwood timber and long-leaf. (See "Machinery Wanted.")

Tex., Neches.—Neches Lumber Co. has in creased capital stock from \$40,000 to \$100,000.

METAL-WORKING PLANTS

Ark., Texarkana—Sheet Metal. — Tennison Bros., Laurel and 3d Sts., will install machinery for manufacturing metal palls, oil cans, etc.

Ga., Savannah — Turpentine Cups.—American Can Co., main office 447 West 17th St., New York, will erect addition to plant at Savannah, providing for manufacture of several thousand turpentine cups daily. E. R. Phillip is Savannah representative.

MINING

Ark., Pike County—Diamonds.—Kimberlite Diamond Mining & Washing Co. Incorporated with \$500,000 capital stock by Eugene H. Abadie of Kirkwood, Mo. (president); Austin O. Miller of Murfreesboro, Ark.; W. Franklin Armstrong, 4210 Delmar Blyd., St. Louis, Mo.; Robert B. Snow of Ferguson, Mo., and others; develop diamond deposits on 25) acres of land in Pike county.

Ga., Atlanta. — Herbert Wiggs, secretary and treasurer Broad River Granite Co., advises that crushing plant, etc., at Oglesby is not contemplated; company is planning erection of large finishing plant in Atlanta, to be devoted exclusively to granite. (Recent report incorrect.)

Ga., Atlanta-Clay, etc.—Southern Mining Co. Incorporated with \$10,000 capital stock by W. E. Cantrell, E. J. Johson and T. D. Meador, Jr.

Mo., Boonville—Sand and Gravel.—Missouri River Sand & Gravel Co. Incorporated with \$100,000 capital stock by C. Meierhoffer of Boonville, N. J. Booth, St. Louis, Mo., and

Mo., Hollister—Lead and Zinc.—Tri-State Mining Co. of Springfield, Mo., Incorporated with \$500,000 capital stock; purchased 1200 acres of land near Hollister and will develop lead and zinc deposits; purchased machinery for prospecting and lumber for 20 houses to be exceed for employes.

Mo., Jeplin-Lead and Zinc.-Sitting Buil Lead & Zinc Mining Co., J. M. Short, manager, R. F. D. No. 3, Galena, Kans., will open bids after September 1 on machinery for plant recently noted. (See "Machinery Wanted.")

Mo., Joplin-Zine and Lead.—Niagara Fails Zinc & Lead Co. Incorporated with \$50,000 capital stock by C. Howard Fisher, Charles W. Pattison and Francis W. Griffith.

Mo., Joplin-Lead and Zinc.-Durston Mining Co. increased capital stock from \$48,000 to \$155,000

Va., Elkton-Manganese, Rockingham Mining Co, will develop manganese deposits in Harnsberger mines,

Va., Richmond—Gold.—Scotla Gold Mining Corporation, W. P. Arwood, assistant manager, Box 202, is developing 173 acres in Fluvanna county containing gold-bearing quartz; present daily capacity eight tons ore; contemplates increasing capacity to 25 or more tons daily; when mine is fairly developed will probably install 20-stamp mill and cyaniding plant.

W. Va., Edgwood, P. O. Wheeling—Limestone. — Wheeling Limestone Co. nwarded contract for furnishing and installing two Austin stone crushers; capacity, 400 tons of stone daily.

MISCELLANEOUS CONSTRUCTION

Fla., Fort Barrancas.—Henry Monk, Pensa cola, Fla., recently noted as lowest bidder at \$14,964, has been awarded contract for extending quartermaster's wharf. (See "Machinery Wanted.")

Fla., Jacksonville – Docks, etc. – Florida Warehouse & Dock Co. incorporated; Frank Drew, president, Live Oak, Fla. (See "Warehouses,")

Fla., Key West-Quay.-Wm. H. Beehler, commander Naval Station, has orders to proceed with construction of quay wall, for which \$137.767 was appropriated; quay will be constructed in front of new fill, giving berthing space to vessels drawing not over 20 feet of water; berthing space will be afforded for space of 1200 feet to accommodate flotillas of 20 or more torpedo boats.

La., New Orleans—Levee Earthwork.— United States Engineer's office will receive bids until August 15 for 257,000 yards of earthwork: H. Burgess, Major, Engineers (See "Machinery Wanted.")

Tenn., Memphis—Levee,—Bids will be opened August 1 for construction of 226,090 cubic yards levee work in Upper Yazoo levee district; M. L. Walker, Major, Engineers. (See "Machinery Wanted.")

Tex., Seadrift-Wharf.-St. Louis, Brownsville & Mexico Railroad, E. C. Burgess, engineer of construction, Kingsville, Tex., will erect wharf extending 500 feet into San Autonio Bay; 36 feet in width; construction begun.

Va., Norfolk—Docks.—Central Water Front Corporation, J. W. Perry, president, purchased 7½ acres on Tarrant's Creek and will improve by dredging and building two docks into property, providing about 1200 feet of water front. (Company recently reported incorporated with \$100,000 capital stock.)

'Va., Richmond - Dam. - City will rebuild dam at Young's pond recently destroyed by flood; Charles E. Bolling, City Engineer.

Va., Richmond—Wharf and Bulkhead.—Council Committee on Improvement of James River recommended award of contract to Alsop & Pierce, Newport News, Va., at \$24,000 for construction of wharf and bulkhead along water front at mouth of Gillie's Creek; plans and specifications prepared by Charles E. Bolling, City Engineer. (Recently mentioned.)

W. Va., Huntington-Monuments. - Balley Post, Grand Army of Republic, is planning erection of soldiers' and sailors' monument; estimated cost. \$7000.

MISCELLANEOUS ENTERPRISES

Ala., Anniston-Garage.-L. G. Jones will remodel building for garage.

Ala., Birmingham.—Ledger Publishing Coincorporated with \$100,000 capital stock; Jas. J. Smith, president; Geo. M. Cruikshank, first vice-president; Robert G. Hiden, second vice-president; Thomas B. Smith, secretary; Anthony A. Smith, superintendent; succeeds Ledger Publishing Co. and will publish Birmingham Ledger.

Ala., Ensley—Plumbing.—Home Plumbing Co. incorporated with \$2500 capital stock; J. A. Wellington, president; W. H. Chichester, vice-president; A. C. Ricks, secretary; W. H. Stewart, treasurer.

Ala., Gadsden—Coffee Ronsting.—William II. Foster, Gadsden, Ala., contemplates installation of coffee-ronsting outfit. (See "Machinery Wanted.")

Ala., Tuscaloosa — Publishing.— Tuscaloosa News Publishing Co. organized; Sam F. Clabaugh, president; Robert T. Mabors, vicepresident; Leon C. Bradley, secretary-treasurer; leased space in Masonic Temple and will install newspaper equipment, consisting of Cottrell new series two-revolution highspeed seven-column quarto press, linotype machine, etc.

Ark., Helena.—C. M. Young, Pine Bluff, Ark., purchased Helena Daily News; will, it is reported, install new machinery and make other improvements.

Fla., Jacksonville - Construction.—Florida Construction & Realty Co. will be incorporated by Frank Drew, Geo. L. Drew, Geo. M. Powell and others; to construct railroads, bridges, etc.

Fla., Plant City-Publishing,-Plant City Courier, Wayne Thomas, editor and proprietor, will install new plant to replace one reported burned.

Ga., Augusta—Poultry and Stock Farm.— Columbia Poultry and Stock Farms incorporated with \$15,000 capital stock by A. Bindewald, J. T. Sheron and W. A. Binde-wald.

Ga., Savannah-Fertilizer Agencies.—Fertilizer Agencies Co., recently noted incorporated (under "Fertilizer Factories") by R. W. Heard and T. C. Myers, will conduct fertilizer agency; capital stock \$2500, with privilege of increasing to \$50,000.

Ga., Sylvania—Laundry.—J. C. White will establish small steam laundry. (See "Machinery Wanted.")

Ga., Thomson—Printing Plant,—Thos E. Watson, Atlanta, Ga., editor of Weekly Jeffersonian and Watson's Magazine, awarded contract to J. J. Crocker, Thomson, for erection of printing plant to cost \$25,000.

Ky., Louisville—Coffee.—Merchants' Coffee Co. incorporated with \$10,000 capital stock by Hesse Runyan, F. P. Kirzinger, L. L. Creasy and James B. Fritz.

Ky., Louisville — Automobiles. — Broadway Auto Co. incorporated with \$10,000 capital stock by Owen S. Motteler, Waiter E. Huffaker and others.

Ky., Paducah—Laundry,—Paducah Laundry Co, increased capital stock from \$18,500 to \$21,000.

La., Jennings — Construction. — Jennings Construction Co. incorporated with \$50,000 capital stock: G. B. Zigler, president: D. Hebert, first vice-president: H. A. Houssiere, second vice-president: C. D. Andrus, secretary: W. B. Conover, treasurer: E. P. Fox, general manager.

Md., Baltimore—Laundry.—Regal Laundry, Inc., Gilmor and Mosher Sts., increased capital stock from \$25,000 to \$50,000.

Md., Cumberland — Builders' Supplies. — Builders' Supply Co. (recently reported incorporated to establish crushing plant and deal in building supplies) will erect two buildings; 40x30 feet; one fireproof; one mill construction; no contracts; manager will supervise construction; machinery purchased.

Miss., Houston—Race Track.—Chickasaw County Fair Association will construct standard association race track; half a mile long; surveying and grading by Gordon L. Green of Aberdeen, Miss.

Mo., Excelsior Springs—Publishing.—Journal Publishing Co. incorporated with \$2000 capital stock by J. W. Hyder, William Morse and W. E. Templeton.

Md., Frederick—Abattoir.—Frederick Abattoir Co. is having plans prepared by P. A. Kley, 1535 Chestnut St., Philadelphia, Pa., for proposed abattoir, etc.; will equip with slaughtering and meat-packing equipment.

Mo., Kansas City—Automobiles.—Chalmers Motor Co. incorporated with \$25,000 capital stock by W. S. Keeler, John A. Nelson and John Price.

Mo., St. Louis—Machinery and Supplies.— R. Refly Hauk Supply Co. incorporated with \$19,000 capital stock by R. Riley Hauk, Herman Ernest, Vincent McShane and others.

Mo., St. Louis-Plumbing, etc.—J. Sheehan Plumbing Co. incorporated with \$300 capital stock by Jeremiah Sheehan, Jeremiah Sheehan, Jr., and others.

Mo., 8t. Louis—Automobiles.—Lane-Lynch Motor Co. incorporated with \$15,000 capital stock by Harry P. Lynch, John A. Johansea and Geo. E. Lane.

N. C., Greensboro—Hardware,—Grissom-Sykes Hardware Co, Incorporated with \$25, 600 capital stock by W. L. Grissom, R. J. Sykes, Hyatt Grissom and others.

X. C., Swansboro-Transportation.-T. H. Pritchard Transportation Co. incorporated with \$50,000 capital stock by T. H. Pritchard

N.C., Wagram-Hardware.—Scotland Hardware Co. incorporated with \$50,000 capital stock by W. L. Trotter and others.

Okla., Muskogee—Construction.—Southland Construction Co. Incorporated with \$16,000 capital stock by J. M. Jemison, T. J. Murphy and Guy Nelson, all of Denison, Tex.

Okla., Rentlesville—Farmers' Supplies,— Rentlesville Farmers' Supply Co. incorporated with \$5000 capital stock by F. P. Brimson, G. H. Warren and Daniel King.

Okla., Oklahoma City—Laundry,—D, I., Parrish of St. Louis, Mo., awarded contract to Western Construction Co. for erection of laundry.

S. C., McColl-Publishing.—Maribore Times Co. incorporated with \$3000 capital stock by O. E. Crowson and others; will publish

S. C., Varnville—Hardware, etc.—Varnville Hardware & Supply Co, incorporated with \$15,000 capital stock; L. R. Dowling, president; E. F. Warren, vice-president; A. R. Spears, secretary-treasurer.

Tenn., Athens-Construction.—Ococe Construction Co. incorporated with \$100,000 capital stock by H. C. Beck, J. D. Alsup, R. L. Westcolt and others.

Tenn., Blountville—Steam Laundry,—American Steam Laundry Co. Incorporated with \$10,000 capital stock by E. H. Kabler, W. F. Kabler, H. F. Henderson and others.

Tenn., Chattanooga — Grain Elevator, — Board of Public Works will receive bids until July 26 for erection of grain elevator on the wharf leased by Tennessee Navigation Co.

Tenn., Memphis-Printing Plant.-C. B. Johnston & Co., 392 South Main St., will erect printing plant at Pontotoc Ave. and Mullerry St.; two stories; concrete; 70x80 feet; fireproof; cost \$23,000.

Tenn., Memphis—Automobiles.—E. M. F. Memphis Company incorporated with \$25,600 capital stock by Walter E. Flanders, Robert M. Brownson, B. Wyckliffe Twyman and others.

Tex., Checotah—Hay and Grain.—Checotah Hay & Grain Co. incorporated with \$10,000 capital stock by M. L. Martin, A. L. Martin, R. O. Smith and others.

Tex., Fort Worth — Printing. — Reimers Printing Co. incorporated with \$65,000 capital stock; takes over Keystone Printing Co. at 308-10 Houston St.; will erect building adjoining Reimers plant, making total floor space of 200,000 square feet; will operate plants separately for present.

Tex., Houston—Decorating.—Bullock Decorative Shops incorporated with \$10,000 capital stock by W. B. Sharp, P. B. Tallman and J. E. Bullock.

Tex., Portland.—Charles P. Taft of Cincinnati, O., and associates are reported as plan-

ning expenditure of \$500,000 for summer and winter resort; improvements to include drilling two artesian wells and construction of water-works, sewerage system, drainage system and dam to provide lake 1½ miles long, 20 feet deep and 600 feet wide; automobile loop, etc., and erection of hotels, pavilions and boathouses; understood John G. Willacy of Corpus Christi, Tex., has threeyear contract to direct work.

Va., Richmond—Park Improvements.—City will expend \$3000 for converting courthouse square into park. Address The Mayor.

Va., Richmond—Publishing.—Odd Fellows' Publishing Co. incorporated with \$10,000 capital stock; Charles Pohlig, president; Hill Montague, vice-president; F. C. Baggarly, secretary-trensurer; no building or machinery plans; for the present will operate by contract.

W. Va., Richwood—Publishing.—Yew-Pine Publishing Co. (recently reported incorporated with \$5000 capital stock) will erect \$4000 building; 30x50 feet; mill construction; plans and erection by W. M. Boso, Richwood; W. E. Bennette, president; G. L. Umbarger, vice-president; J. K. Ward, secretary, treasurer and manager.

W. Va., Wheeling—Garage.—Wheeling Automobile Co. will erect garage; two stories; brick and steel; steam heat; main floor supported by steel trusses; accommodate 50 cars; construction under supervision of B. F. Perkins, president of company.

MISCELLANEOUS FACTORIES

Ala., Bessemer—Powder.—E. I. duPont de Nemours Powder Co. (main office, Wilmington, Del.) will erect four brick buildings equipped with powder magazines.

Ala., Birmingham—Slag Bricks.—Birmingham Slag Co. incorporated with \$20,000 capital stock; Solon Jacobs, president; J. H. Dean, vice-president; H. O. Bernhard, secretary-treasurer; will manufacture slag brick and fertilizer.

Ala., Birmingham. — Multi-copy Machines, etc.—Multi-Copy Co. incorporated with \$5000 capital stock; A. S. Boyd, president; L. M. Smith, vice-president; A. S. McElroy, secretary-treasurer.

Ark., Helena—Gas Plant.—Helena Gas Co. purchased and will install generating machine with capacity of 150,000 cubic feet daily, doubling capacity of plant.

Ark., Texarkana—Crossoting.—Texarkana Shingle Crosoting Co. incorporated with \$10,000 capital stock; J. C. Paty, president; D. J. Cavitt, vice-president; B. K. Rodgers, secretary-treasurer; will crossote pine and cypress shingles under process devised by Mr. Paty; contemplates establishment of shingle mill with daily capacity of several million shingles.

Ark., Texarkana — Creositing. — Creosote Pole Co. incorporated with \$25,000 capital stock by B. G. Cox, F. W. Shifflin and Thos. Sorsby.

Fla., Jacksonville—Drugs.—Southern Drug Manufacturing Co., Frank Adams, president, is having plans and specifications drawn under direction of Southeastern Tariff Association for fireproof building.

Fla., Tampa—Automobiles.—Sunlight Manufacturing Co., Robert Mugge, president and trensurer. is consummating plans for establishment of automobile-manufacturing plant, to be operated in connection with present gasoline-lighting systems plant; contemplates erection of three-story brick building, 200x80 feet; complete equipment of machinery to be installed.

Ga., Atlanta-Beverages.—Nova-Kola Bottling Co. incorporated with \$10,000 capital stock by E. C. Lester and others.

Ga., Atlanta-Dental Supplies.—Eberhart Conway Co. incorporated with \$10,000 capital stock by A. O. Eberhart, W. S. Conway, C. E. Bothwell and others.

Ga., Macon - Cigars. - Jacob Fischer, 1526 Mifflin St., and John Guteri, both of Philadelphia, Pa., will establish cigar factory.

Ky., Lancaster — Medicine. — Walter Bros. & Hart Medicine Co. Incorporated with \$25, 000 capital stock by B. F. Walter, C. A. Walter and F. G. Hart.

Ky., Louisville—Statuary.—Grisanti Statuary Co. has plans by Fred Erhart, 405 Norton Bidg., Louisville, for four-story factory building recently noted; will let contract to local contractor for installation of boiler for steam-heating plant and kilns for drying.

Ky., Nicholasville-White Lead and Byproducts.-Kentucky Barytes Co. will enlarge plant to extract white lead and other byproducts.

La., Alexandria—Sugar Refinery.—John A. Wogan of New Orleans, La., is reported as considering establishment of sugar refinery. Ga., Cordele—Cigars.—A. Lopez of Montezuma, Ga., organized company to establish factory with capacity of 75,000 cigars weekly.

Miss., Meridian — Automobiles, etc.— Meridian Auto Co. Incorporated with \$10,000 capital stock by Sam Meyer, J. T. Russell, Walter G. Hodges and others to manufacture automobiles, etc.

Md., Baltimore—Tooth Paste.—Professional Tooth Paste Co. incorporated with \$5000 capital stock by Frederick W. Schanze, North and Pennsylvania Aves.; Louis J. Roth and Lavina Abbott.

Mo., Kansas City—Cut Stone.—Phenix Stone & Lime Co. of 19th and Olive Sts., Kansas City, and Phenix, Mo., recently noted (under "Miscellaneous Enterprises") to increase capital stock to \$125,000, will erect mill-construction building costing \$20,000; erection by company; capacity of plant 30,000 cubic feet cut stone per month.

Mo., Kansas City-Medicine.—Vesper Medical Co. incorporated with \$10,000 capital stock by Jack C. Norman, Clarence A. Dotz and Clarence A. Marsh.

Mo., Kansas City-Stock Foods.—United States Stock Foods Co. incorporated with \$15,000 capital stock by James A. Haskell, C. II. Forsee and W. F. Tuttle.

Mo., Kansas City.—Roofing.—Nelson Manufacturing Co. of Minneapolis, Minn., and Winnipeg, Manitoba, will establish branch plant at 1932 Grand Ave.; erect factory building later.

Mo., Kansas City-Drugs.-Ponayao Drug Co., 610 Broadway, will establish drug factory.

Mo., St. Louis—Food Products.—Dry Egg & Food Products Co. Incorporated with \$5000 capital stock by W. H. Hipolite, Robert T. Wartman and F. C. Busche.

Mo., St. Louis — Trucks, etc. — St. Louis Truck & Specialty Co. incorporated with \$2000 capital stock by John F. Judd, William Waltering, William Berninger and others.

N. C., Wilmington—Paint and Varnish.— Atlantic Paint & Varnish Co. incorporated with \$35,000 capital stock by M. Ashley Curtis, Jr., Platt W. Davis, David C. Ray and Chas. N. Evans.

N. C., Wilmington—Paint.—Atlantic Paint and Varnish Works (incorporated) organized to manufacture paints, stains and varnishes; will make specialty of paints for agricultural implements, trunks, furniture, etc.; also shingle stains and roof paints; P. W. Davis, president; Thos. W. Pritchard, vice-president and manager; M. A. Curtis, secretary-treasurer.

Okla., Avant—Glass.—American Glass Co. (recently reported incorporated with \$25,000 capital stock) will manufacture lamp chimneys and sundry glass articles; machinery supplied; 280x100-foot main building and 100x50-foot warehouse now under construction; M. Schwartz, president and manager; J. A. Du Bose, Anniston, Ala., vice-president; J. E. Dunn, Tulsa, Okla., treasurer; A. S. Evans, secretary.

Okla., Bartlesville—Glass Bottles.—Bartlesville Bottle & Glass Co. will operate Great Western Glass Co.'s plant recently noted leased; manufacture glass bottles; daily capacity. 150 gross; Geo. Crawford, president; Jess Stewart, vice-president; Jas. W. Lynch, 510 Shawnee Avc., secretary; Wm. Schoberth, treasurer; Robert Ballentine, manager. (See "Machinery Wanted.")

Okla., Enid-Polish. - Thomas Motor Car Polish Co. Incorporated by F. J. Gentry, William Froach, M. L. Thomas and R. W. Thomas.

Okla., Oklahoma City—Automobile Selfcontrolling Device.—C. A. McKlerman of Carthage, Mo., is promoting organization of company with \$150,000 capital stock to manufacture device, invented by Mr. McKlerman, for controlling automobiles; substitutes one lever for clutch, brake and spark.

Okla., Oklahoma City.—Farmers' Motor Wagon & Plow Co. Incorporated with \$100,000 capital stock by Colfax Moulton, H. D. East and others.

S. C., Union—Overalls, etc.—L. L. Wagnon, care Union Grocery Co., Main and Bachelor Sts., contemplates establishment of overalls factory, and possibly waste mill, or both combined. (See "Machinery Wanted.")

Tenn., Chattanooga—Refrigerators.—Odorless Refrigerator Co., 10th and East R Sts., awarded contract for erection of new factory building recently noted; material also practically secured.

Tenn., Chattanooga.—Blowpipe.—Ryerson Biowpipe Co., 105 Howard St., Ridgedale, Tenn., will establish blowpipe shop. Address Chas. A. Ryerson. (See "Machinery Wanted.")

Tenn., Jackson — Automobiles. — Jackson Carriage Co. purchased and will install machinery for manufacturing and repairing automobiles.

Tenn., Nashville — Drugs. — Co-operative Drug Manufacturing Co. incorporated with \$20,000 capital stock by W. Dearnold, T. B. Carroll, J. E. Mosely and others.

Tex., Amarillo—Aerial Vehicles.—Rex Aerial Navigating & Constructing Co. (organized with \$2,000,000 capital stock) contemplates establishment of headquarters and factory; location not decided; is now having first machine constructed by Al-Ed Manufacturing Co., Dayton, O.

Tex., Dallas-Automobile Tires. - Breihan-Kaplan & Co. will erect two-story building for automobile-tire factory.

Tex., Galveston—Brewery.—M. Brock Beer Co. incorporated with \$30,000 capital stock by Moritz Brock, Sidney G. Coilins and Jacob Brock.

Tex., New Ulm — Creamery. — New Ulm Creamery Co. Incorporated with \$2500 capital stock by W. H. Talley, Jr., F. F. Lesikar, Gus R. Voight and others.

Tex., Orange-Oll Refinery.-Webster Refining Co. Incorporated with \$200,000 capital stock by C. D. Webster, W. H. Stark, F. H. Farwell and others.

Tex., Sherman—Marble and Granite.—Sherman Steam Marble and Granite Works, recently reported incorporated (under "Minig") with \$3000 capital stock, will manufacture granite and marble monumental and building work; J. A. L. Wolfe, president; H. L. Hendrex, vice-president; F. W. Hudson, secretary-treasurer. (See "Machinery, etc., Wanted.")

Va., Alexandria—Distillery.—S. E. Lindsey Distilling Co. incorporated with \$25,000 capital stock; S. E. Lindsey, president; F. L. Lindsey, secretary.

Va., Manchester—Distillery.—Broad Rock Distilling Co. incorporated with \$15,000 capital stock; J. F. Fowler, president and general manager, Manchester; J. H. Mechum, vice-president; J. M. Pugh, secretary-treasurer; both of Richmond, Va.

Va., Petersburg.—Alexander B. Murray is proceeding with plans for creamery recently noted; desires correspondence with building and machinery contractors. (See "Machinery Wanted.")

Va., Richmond—Harness and Saddlery.— Benjamin T. Crump Company incorporated with \$60,000 capital stock; J. M. Wyatt, president; T. A. Stanford, vice-president; P. A. Seaton, secretary-treasurer.

Va., Salem-Tannery.—Leas & McVitty will open bids August 5 for erection of addition to tannery recently noted; two stories; 48x 112 feet; mill construction; steam heat; freight elevator; will install machinery; total cost, \$18,000.

W. Va., Bluefield—Condensed Milk, etc.—W. H. Thomas of committee of new industries of Chamber of Commerce is interested in establishment of evaporated cream and condensed milk factory.

W. Va., Moundsville—Brake Shoes for Car Wheels.—J. L. Cohagen of Washington, Pa., and W. W. Smith of Wheeling, W. Va., representing Railway Brake & Shoe Co., contemplate establishment of plant to manufracture patented brake shoes for steam and electric railroads; shoes composed of maleable-iron shell filled with secret-process composition; plan is to erect brick building 80x 300 feet, one and two storles, cost \$10,000, and install \$20,000 worth of equipment.

W. Va., New Martinsville—Gasoline.—Alpha Oil & Gasoline Co. incorporated with \$25,000 capital stock by A. B. Moore, F. C. Iams, S. A. Moore and others to manufacture gasoline from natural gas which company is now producing; will instal gasoline plants on several gas-producing leases.

W. Va., Parkersburg — Tannery. — T. G. Schoenberg of Cincinnati, O., proposes organization of company with \$60,000 to \$70,000 capital stock to establish tannery.

RAILWAY SHOPS, TERMINALS, ROUNDHOUSES, SHEDS, ETC.

Md., Baltimore.—Washington, Baltimore & Annapolis Electric Railway Co., 108 North Liberty St., will further enlarge freight terminals on Lombard near Howard St. to provide aditional facilities for handling freight traffic between Baltimore, Annapolis and Washington.

Mo., Kansas City.—Missouri Pacific Railway, M. L. Byers, chief engineer maintenance of way, St. Louis, Mo., will, it is reported, erect railway shops in East Bottoms; 335x175 feet; buildings will include machine, boiler-repair and blacksmith shops; estimated cost \$200,000; F. E. Caldwell of Westinghouse, Church, Kerr & Co., 30 Church St., New York, is superintendent of construction.

Okla., Chickasha.—Oklahoma Central Railway, B. M. Haile, traffic manager, Purcell, Okla., will, it is reported, erect terminal buildings at Chickasha.

Tex., Quanah.—Quanah, Acme & Pacific Railway, C. E. Ensminger, general manager, will erect five stall roundhouse.

ROAD AND STREET WORK

Ala., Birmingham.—City contemplates ex penditure of \$750,000 for street improvements Address The Mayor.

Ala., Birmingham.—City opened bids July 20 for certain asphalt binder macadam, bituminous binder macadam, bitulithic or granitoid sidewalk and gutter paving; Maury Nicholson, City Engineer.

Ala., Decatur. — Morgan County Commissioners will receive bids until August 9 for grading, draining and macadamizing Decatur-Danville road, five and one-twelfth miles; grading and macadamizing Falkville road, one and one-half miles; grading, draining and macadamizing Lacey Springs road, three miles; grading, draining and macadamizing county road (No. 2), four and five-tenths miles; J. T. Bullen, County Engineer. (See "Machinery Wanted.")

Ala., Dothan.—Houston county awarded contract at \$1000 per mile to Wifford & Whitaker for construction of 13 miles of road from Dothan to Cottonwood and from Gordon to Ashford, distance of nine miles.

Ark., Forrest City.—City will not ask bids on five miles concrete sidewalks recently noted; work will be done by local contractors; A. D. Boyle, Mayor.

Ala., Fort Morgan.—Constructing Quartermaster Lieut. Edwin F. Barlow will receive bids until August 5 for constructing brick paved road and cement walks. (See "Machinery Wanted.")

Ala., Linden.—Marengo county will vote in September on issuance of \$200,000 of bonds for road improvements. Address County Commissioners.

Ala., Selma.—Dallas county, W. S. Keller, engineer, has completed surveys for road between Selma and Burnsville and will invite blds for construction.

Ark., Little Rock.—City will pave portions of Main and 3d Sts. with vitrified brick, asphalt or creosoted blocks; Frederick Hotze and others, commissioners of improvement district.

Ark., Little Rock.—City awarded contract to Memphis (Tenn.) Asphalt Paving Co. at \$3500 for resurfacing street intersections on Center St. from 12th to 18th Sts.

Ark., Little Rock.—Pulaski and Lonoke counties will construct 14-mile turnpike from Little Rock to point near Lonoke county line; estimated cost \$100,000. Address County Commissioners of Pulaski county at Little Rock.

Fla., Fort Barraneas.—Henry Monk, Pensacola, Fla., has contract to macadamize National Cemetery Rd. from Fort Barraneas to Big Bayou; estimated cost \$15,000. (Recently mentioned.)

Fla., Pensacola. — Maxent Land Co. has awarded contract for five miles of concrete sidewalks in Maxent tract.

Fla., West Palm Beach.—Palm Beach county will construct cement sidewalk around east and north sides of courthouse and from sidewalk to steps on said sides; bids to be opened July 28; W. D. Da Camara, chairman County Commissioners. (See "Machinery Wanted.")

Fla., White Springs.—City contemplates vote on bond issue of about \$5000 for street improvements; G. S. Mobley, Mayor. (See "Water-Works.")

Ga., Clarksville. — City will receive bids until August 5 for construction of approximately 6000 linear feet of curb and gutter. 8000 square yards macadam pavement and 9000 square yards brick or concrete sidewalk: J. H. Hicks, Mayor. (See "Machinery Wanted.")

Ga., Savannah.—Chatham county will construct boulevard around Burnside Island: 19,337 feet long, having right of way 60 feet wide on highland and 200 feet wide on causeway. Address County Commissioners.

Ga., Sparta.—Hancock county (not "city." as recently reported) will vote July 23 on \$60,000 bond issue for road improvements; W. E. Wiley, clerk County Commissioners.

Ga., Elberton.—City is considering issuance of \$25,000 of bonds for macadamizing residence streets. Address The Mayor.

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Ky., Lexington.—City awarded contract to Andrews Asphalt Paving Co., Hamilton, O., to pave East Main St. with Trinidad Lake asphalt; estimated cost \$60,000 to \$70,000. OTO.

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La., Lake Charles.-City has voted issuance of \$360,000 bonds for streets, sewers, city hall, etc. Address The Mayor. (Lately men-

La., New Orleans.—Acting City Engineer Willis submitted report to committee on finance recommending acceptance of following bids: Standard Paving & Construction Co. of New Orleans at \$20,248.60 for construction of subsurface drains, etc., in connection with paving of Plum St., and at \$25,646.40 for construction of subsurface drains, etc., in connection with paving of Plum St., and at \$25,646.40 astruction of subsurface drains, etc., on Burdette St.; Barber Asphalt Paving Co. (main office Philadelphia, Pa.) at \$12,95 for repaving Burdette St. with asphalt; at \$12,-781.90 for construction of subsurface drains 781.39 for construction of subsurface drains in connection with paving of Bienville St.; at \$13,680.90 for paving said street; at \$36,227 for paving Alexander St. with asphalt, and at \$34,086.50 for construction of subsurface drains in same street; Southern Bitulithic Co., Nashville, Tenn., at \$3528 for paving Plum St.

La., New Iberia.—Police July of Iberia par-sh contemplates construction of 12 miles of

Md., Baltimore.—State Road Commission, John M. Tucker, chairman, Union Trust Bidg., will open bids July 27 for construction of three miles of stone macadam road in Cecil county, between Elkton and Singerly. (See "Machinery Wanted.")

Md., Fort Howard.-Bids will be opened Md., Fort Howard.—Bids will be opened August 15 for constructing macadam roads, macadam resurfacing roads, concrete walks and cross-walks. Address Constructing Quartermaster. (See "Machinery Wanted.")

Md., Port Deposit.-State Roads Commis sion, John M. Tucker, chairman, Union Trust Bldg., Baltimore, Md., will construct macad-amized road from Port Deposit to Battle Swamp, distance of three and one-half miles.

Md., Towson.—Baltimore County Commissioners awarded contract at \$8500 to P. Flanigan & Sons, 120 East Lexington St., Baitimore, to open and macadamize Hillsdale Ave., between Liberty Rd. and Forest Ave.

Miss., Eupora.—City awarded contract to Oxford Concrete Co, and Frank F. Conover, Grenada, Miss., for proposed 5000 cubic yards grading, 3000 square feet crossings, 100,000 square feet sidewalks and 250 culverts; cost \$10,000. (Recently incorrectly noted.)

Miss., Grenada.—City awarded contract to Frank F. Conover, Grenada, for construction of concrete curb and gutter, sidewalks and crossings. (Recently noted.)

Miss., Gulfport.-City will receive bids until August 2 on proposed sidewalk construction; approximately 13,000 square yards; Hobart D. Shaw, City Engineer. (See "Machinery Wanted.")

Miss., Leland.—City will construct concrete idewalks; bids to be opened August 2; R. V. Garrison, Mayor. (See "Machinery Wanted.")

Miss., Moss Point .- City will receive bids until August 1 for grading approximately five miles of city streets; C. M. Fairley, City Clerk. (See "Machinery Wanted.")

Miss., Wiggins.—City will vote August 19 on \$5000 bond issue for street improvements. Address The Mayor. (See "Machinery Wanted.")

N. C., Southport.—Town Creek township of Brunswick county will vote August 16 on issuance of \$15,000 of bonds for road improve-ments. Address Township Commissioners.

Okla., Oklahoma City.-City will receive

bids until July 25 for grading various streets; Bob Parman, City Clerk. (See "Machinery

Okla., Pawhuska.—City will pave 15 blocks with asphalt. Address The Mayor.

S. C., Spartanburg.—Spartanburg county will construct six miles of road; width, 39 feet; contract to be let July 27; D. P. L. Martin, commissioner. (See "Machinery Wanted."

Tenn., Memphis.—Turnpike Board, J. F. Williams, chairman, awarded contracts for about 30 miles of road in Shelby county as follows: W. F. McCalla—Stewartsville pike, two miles, and Brunswick pike to State Rd., two miles, and Brunswick pike to State Rd., three miles. O. R. Branch-Millington and Sloanville, two miles, and Locke and Cuba, two miles. W. H. Williams-Kerrville and Rosemark, one mile. J. G. Galloway-Coleman Ave., two miles. C. G. Gowan-Avenue and Bartlett, one-half mile. Baxter & Farley-Extension of old State Rd., four miles, and Collierville and Fisherville, three miles. Myor & Segurgar, Germantova, and Cordova. MeVey & Scruggs-Germantown and Cordova, four miles. C. E. Prescott-Capleville and Tiptop, three miles; Ethelyn, Kirkland, Gaither, Nefer and Humbler Aves, total of three-quarter mile; Lower Horn Lake Rd., one mile. Bids ranged from \$500 to \$1000 per mile

Tenn., Nashville.-Board of Public Works

awarded contract to Foy-Proctor Company of Nashville for curbing and sidewalk paving aggregating about \$10,000.

Tenn., Newport. - City will probably let ontract to local contractors for construction contract to local contractors for construction of concrete sidewalks recently noted; cost \$2000; F. M. Greer, Mayor.

\$2000; F. M. Greer, Mayor.

Tenn., Trenton.—City awarded contract to
Novaculite Graveling & Paving Co., Tamms,
Ill., to gravel about five miles of street, and
to Ira Fitzgerald of Trenton for grading.

Tex., Abilene.—Board of School Trustees
awarded contract to R. H. Locke, Abilene,
for construction of cement walks around
three ward buildings and high school; also
cement floor in basement of high school;
22,000 square feet walks; 5300 feet flooring;
cost over \$3000. cost over \$3000.

Tex., Dallas.—Collum & Bavousett of Dallas are lowest bidders at \$4234.86 for building Humbard Trail, near White Rock Reservoir.

Tex., Dallas.—Municipal Paving Co. of Dallas is lowest bidder at \$12,862.50 for resurfacing streets which bound courthouse; J. M. Preston, City Engineer.

Tex., Galveston.—Galveston county awarded contract to J. F. Magee, Texarkana, Tex., at \$5792 to construct sidewalk and curbing from Ave. B to Ave. II; contract calls for 4909 square yards sidewalk, 2209 linear feet concrete curbing and 2359 linear feet concrete retaining curb; John M. Murch, County Auditor. (Percently protitional) Auditor. (Recently mentioned.)

Tex., Longview.-City awarded contract at 7ex., Longview.—City awarded contract at 860,000 to Texas Grading Co., 114 Travis St., Houston, Tex., for constructing brick and macadam pavements on various streets. (City lately noted as receiving bids.)

Tex., Marlin.—City will construct about 58,-060 cubic feet of street paving on Live Oak, Commerce and Winter Sts.; bids opened July 20; for information address Albert Levy, secretary.

Tex., Paris.—City awarded contract at \$1.83 per yard for paving Graham St. and North 18th St. with rock asphalt; contract was also awarded for paving Lamar Ave. Address

The Mayor.

Tex., Taylor.—Frank Mathews, City Engineer (recently reported to prepare plans for paving Main St.), states city proposes to pave business portions with brick on concrete foundations; present 12-foot sidewalks to be widened six feet on each side, thus reducing width of present 190-foot-wide street to 64 feet; City Hall square to be made into park, with walks, band stand, fountains and flowers.

Va., Clifton Forge.—City Council is considering issuance of \$65,000 of bonds for paving streets and sidewalks, etc. Address The Mayor. (See "Sewer Construction.")

Va., Emporia.—Town Council appropriated 5000 for street improvements.

Va., Lynchburg.—Board of Aldermen ap propriated \$15,000 for !mprovement of Taylor Wise and 14th Sts. Address The Mayor.

Va., North Emporia.—Town Council appropriated \$5000 for street and sidewalk im-

Va., Richmond.-City Council appropriated \$15,000 for improvement of streets in Washington ward; Charles E. Bolling, City Engi-

Va., Wise.—Wise county will vote November 22 on issuance of \$700,000 of bonds for road construction. Address County Commissioners. (Recently mentioned.)

W. Va., Clarksburg.—Paving contract re-centily noted awarded by city to Concrete Construction Co., Suite 508, Union Trust Bildg., Parkersburg, W. Va., amounts to \$40,-900; includes paving and curbing on Locust, Elm, Walnut, Washington Ave., Clay and Main Sts.; contracts for material have been

W. Va., Morgantown.—Monongalia County Road Commissioners will let contract in about 30 days for construction of 3000 linear feet of brick pavement, 25 feet wide, with necessary sewers, concrete curb and side-walks; Robert D. Hennen, road engineer, Morgantown. (See "Machinery Wanted.")

W. Va., Webster Springs.—Town will, it is reported, expend \$10,000 for paving streets with concrete. Address Town Clerk.

Va., Wytheville.—Wythe county will con-struct three and one-quarter miles of mac-adam road from end of present contract cast of Lynchburg turnpike from Wytheville; bids to be opened August 2; P. St. John Wilson, (See "Machinery Wanted.")

SEWER CONSTRUCTION

Ala., Alexander City.—City postponed date of election (recently reported) to August 17 for voting on issuance of \$5500 bonds for construction of sewers. Address The Mayor.

Fla., St. Petersburg.-City will lay 1800 linear feet of 16-inch cast-iron flauge outlet sewer pipe into Tampa Bay; bids to be opened August 11; W. F. Divine, City Clerk. (See "Machinery Wanted.")

Fla., White Springs.-City defeated bond lection of \$20,000 for sewerage and waterworks recently mentioned; contemplates holding another election later to vote on bond issue of \$45,000 for sewerage, etc.; G. S. Mobley, Mayor. (See "Water-Works.")

Ga., Rockmart.—City will vote August 10 on Issuance of \$10,000 of bonds for construc-tion of sewer system. I. F. Mundy, Mayor.

La., Lake Charles.—City has voted issuance of \$360,000 bonds for sewers, paving, city hail, etc. Address The Mayor. (Lately mentioned.)

Md., Elkton. - City defeated \$75,000 bond issue for construction of sewer, water and light systems. Address The Mayor. (Re-cently mentioned.)

Mo., Dexter.—City will probably vote in August on \$40,000 or \$50,000 band issue for construction of sewer and water-works sys-tem recently noted; Fuller-Coult Company, Chemical Bidg., St. Louis, Mo., engineers. (See "Water-works.")

Mo., Montgomery City.—City will vote July 25 on \$14,900 bond issue for construction of sanitary-sewer system recently noted; Fuller-Coult Company, Chemical Bldg., St. Louis, Mo., engineers.

Mo., St. Louis.—Board of Public Improve-ments, W. B. Dryden, secretary, awarded con-tract to Bambrick Bros. Construction Co., 5229 St. Louis Ave., St. Louis, to construct South Harlem joint district sewer, and to Southern Construction Co., Mermod and "T" Bldg., St. Louis, for first section of River des Peres foul-water sewer.

N. C., Asheville.-M. H. Kelly, Asheville, is receeding with sewer and water construc-ion for which he has contract; amount,

N. C., Murphy .- M. H. Kelly, Asheville, N. C., reports receiving sewer and water contract at \$12,000; has completed previously awarded \$42,000 contract.

Okla., Enid.—City will construct 1000 feet of eight-inch vitrified pipe lateral sewer in Marshall-Gannon first addition and in Jones-ville Addition, being extension to sewer dis-trict No. 25; bids opened July 20; E. R. Lee, City Clerk.

S. C., Sumter.—City Engineer Lee will pre-pare specifications for constructing main line of sewerage for western half of system, and for repairing Oakland Ave. line.

Tex., Bryan.—City is considering proposi-tion to establish sewer, water and electric-light plant; cost \$100,090. Address The

Tex., Portland.-Charles P. Taft of Cin nati, O., and associates are reported as plan-ning construction of sewerage system, with John G. Willacy of Corpus Christi, Tex., in charge of work. (See "Miscellaneous Enter-

Va., Clifton Forg.—City Council is considering issuance of \$65,000 of bonds for construction of sewers, paving streets and sidewalks, building bridges, erecting jail, etc. Address The Mayor.

TELEPHONE SYSTEMS

Ark., Helena.—Lake View Telephone Co. (incorporated recently) has elected S. Staub, president; W. H. Howe, vice-president; Wm. Richardson, treasurer; construct 26 miles of line, connecting Helena, Wabash and Oneida, Ark.; supplies purchased.

Fla., Ocala.—Marion County Telephone Co. incorporated with \$10,000 capital stock; W. N. Camp, president, of Ocala; J. R. Wil-liams, vice-president, of Citra, Fla.; Edward Holder, treasurer, of Ocala; operate telephone line from Citra, Fia., to Ocala, Lake Weir and Leesburg.

Mo., Lathrop.—Clover Leaf Telephone Co. will lay underground cables in business section for telephones.

N. C., Siler City.—Bonice Telephone Co. (recently reported incorporated with \$10,000 apital stock) will construct 150 miles of line capital stock) will construct 130 miles of the connecting Siler City, Pittsboro, Bonlee and Goldston, N. C.; erect two exchanges; Henry Pilso, engineer in charge of construction; C. N. Bracy, president; W. D. Siler, vice-presi-dent; J. W. Siler, secretary-manager.

Tenn., Livingston.—Home Telephone Co. in-corporated by John Lacy, J. i., Parrish, S. O. Huddleston and others; construct tele-phone line between Livingston and Byrds-

Tenn., Byrdstown.—Home Telephone Co. incorporated with \$15,600 capital stock by John Lacy, K. L. Harris, S. O. Huddleston

Va., Buffalo Ridge, - Buffalo Ridge Telephone Co. incorporated with \$5000 capital stock; G. A. De Hart, president, Buffalo Ridge; J. A. Nolen, Jr., secretary, Elams-

TEXTILE MILLS

Ga., Monticello-Cotton Goods.-D. N. Har-vey is understood to be interested in plan for organizing company to build cotton mill.

N. C., Raleigh-Carpets, etc.-J. A. Mat-hews, 242 Tucker St., is reported as to establish carpet and rug mill.

N. C., Salisbury—Ginghams, etc.—Salisbury Cotton Mills will build one-story 74x-9-foot brick addition to weaving department and install 80 looms; now has 21,500 ring spindles, 500 looms, etc.

N. C., Vass-Cotton Yarns.-Vass Cotton Mills Co. will install 5000 spindles and op-erate by electricity; machinery contracts awarded through engineer, Stuart W. Cra-mer, Charlotte, N. C.; authorized capital stock, \$200,000; Angus Cameron, president. (Lately mentioned.)

S. C., Gray Court-Cotton Goods .-- R. L. Gray is interested in plan for erecting cotton mill.

C., Darlington - Cotton Goods. - D. T. McKeithan, L. E. Williamson, C. B. Edwards and S. Vaughn propose organizing \$300,000 company to build cotton mill.

S. C., Union—Cotton Waste,—L. L. Wagnon, care Union Grocery Co., Main and Bachelor Sts., may establish cotton-waste mill. (See "Miscellaneous Factories" and "Machinery

W. Va., Parkersburg — Woolen Goods. — American Woolen Mills Co. incorporated with \$5000 capital stock by M. R. Hansel, Charles I. Strelile and others.

WATER-WORKS

Ala., Alexander City.-City postponed date of election (recently reported) to August 17 for voting on issuance of \$2500 for extending water-works system. Address The Mayor.

Ala., Opelika.-City has voted issuance of \$85,000 bonds for construction of water-works and electric-light plant. Address The Mayor, (Lately mentioned.)

Ark., Hamburg. — Hamburg Improvement District Board Commissioners will install water-works and electric-light plant.

Fla., White Springs.—City voted negatively on previously noted bond issue of \$20,000 for water-works and sewerage; contemplates holding another election later to vote on \$45,-000 bond issue for water-works, sewerage, lighting plant, street improvements and school building; of this amount, about \$5000 for street improvements, and same for new school building; G. S. Mobley, Mayor.

Ga., Dalton.—H. 8. Jaudon Engineering Co., Suvannah, Ga., has completed plans and specifications for water-works and electric-light plants; water-works system will include light plants; water-works system will include 4,500,000 gallons daily; equipment will include steam pump and electric pump for lifting water from Mill Creek, on which pumping station, filter tanks, etc., will be located, into settling basin; two steam and one electric pumps will pump water, after it has been filtered, into reinforced-concrete reservoir on top of Mt. Rachel; reservoir capacity 750,000 gallons; filter tank at present plant will be used and another of reinforced concrete will be built; 12-inch water main will lead from reservoir on Mt. Rachel, which will join Hamilton 8t, main at Waugh 8t.; another main will be laid on street parallel with Hamilton 8t., and two mains will be joined at intervals; electric-light plant will be installed in same building with water-works at intervals; electric-light plant will be in-stalled in same building with water-works plant; electrical equipment will include com-pound-condensing engines direct connected to generators; capacity 500 horse-power, (Recently mentioned.)

Ga., Rockmart.—City will vote August 10 on issuance of \$25,000 of bonds for construc-tion of water-works; I. F. Mundy, Mayor.

Ga., Meigs.—City will vote on issuance of 20,000 bonds for water-works. Address The Mayor.

Cumberland.-City Council appropriated \$5000 for engineer's service, examina-tions and plans for gravity water supply from Evitts Creek, with Bottle Run as an adjunct; Legislature authorized \$500,000 bond ssue to be approved by voters. Address The

Md., Elkton,-City defeated \$75,000 bond issue for constructing water, light and sewer systems. Address The Mayor. (Recently mentioned.)

Md., Hancock.-City will award contracts for construction of water-works in sections;

bids lately received for plant as whole exceeded \$30,000 bond issue; system will inclu 300,000-gallon concrete reservoir, pumping station, filtration plant, two miles water pipe and sewer; plans by Penniman & Fairley, 41 Marine Bank Bidg., Baltimore, Md.; R. J. McCandlish, Clerk. (Recently mentioned.)

Md., Williamsport.—Edward M. Byron, M. Emmett Gullen, Wm. G. Byron and others have organized company and will petition city for franchise to establish water-works system; system will include reservoir, filtration plant, etc.; estimated amount to be ex pended \$40,000.

Miss., Collins.—City awarded contract to Guarantee Paying Co., Collins, for erection of reservoir for water-works plant; rein-forced concrete; capacity 200,000 gallons. (Recently mentioned.)

Mo., Dexter.—City will probably vote in August on \$40,000 or \$50,000 bond issue for August on \$40,000 or \$00,000 tond issue for construction of water-works and sewer sys-tems recently noted; Fuller-Coult Company Chemical Bldg., St. Louis, Mo., engineers. (See "Sewer Construction.")

Mo., Joplin.-L. P. Cunningham is inter ested in construction of proposed 30-inch pipe line to pipe spring water from Jopliu to Kansas City, Mo., at estimated cost of \$4,000,000; is also reported as contemplating construc-tion of pipe line from Center Creek and Spring River springs to cities in Joplin dis-

Mo., Montgomery City. - City will vot July 25 on \$11,000 bond issue for extension to water-works system recently noted; Fuller-Coult Company, Chemical Bidg., St. Louis,

N. C., Asheville.-M. H. Kelly, Asheville. has contract at \$12,000 for sewer and water construction.

N. C., Murphy.-M. H. Kelly, Asheville, N. C, reports receiving sewer and water contract at \$12,000; previously awarded \$42,000 contract completed.

Okla., Bridgeport.-City has engaged Okla homa Engineering Co., 120 West Broadway, Anadarko, Okla., to prepare plans for pro-posed water-works system; will receive bids in August. (See "Machinery Wanted.")

Okla., Durant.—City is considering plans and bids for construction of filtration plant at water-works. Address The Mayor.

Okla., Foss.-City has plans for construc-ion of water-works system to cost \$25,000; W. H. Kennedy, superintendent of construc-

Hastings.-City will vote on is ance of bonds for water-works system. dress The Mayor.

S. C., Charleston,-Mayor R. H. Rhett apduted special committee to select engine to estimate cost of constructing water-works.

S. C., Elloree,—City will vote July 25 on ssunnce of \$5000 bonds for water-works. Address The Mayor.

Tenn., Decherd.—City has awarded con-tract for water-works and electric-light sys-tem. Address The Mayor.

Tex., Bryan.-City is considering pro tion to establish water, sewerage and electric-light plant; cost \$100,000. Address The

Cuero. - City will install electric pumping plant at water-works; pumps, mo-tors and air compressors to be in duplicate; will construct concrete-block house 20x49 feet; contract for machinery awarded. Ad-dress The Mayor.

Tex., Gordon.—Gordon Water, Light & Ice Co., W. S. Dawson, secretary, Box 22 (re-cently noted incorporated with \$500) capital will install small water plant; water orced about 100 feet elevation to storage tank and supplied to consumers by grav ity pressure; water from lake; equipment in des 18-foot windmill-gasoline engine, five inch syphon pump, 16x20x23-inch cy tank, etc.; capacity, 50,000 to 75,000 gallor 16x20x23-inch cypress

Tex., LaPryor.-LaPryor Water & Light Co. incorporated with \$8000 capital stock by W. G. Bates, D. A. Harrison and R. L. Couser.

Tex., Portland.-Charles P. R. Taft of Cincinnati. O., and associates are reported as chinati, O., and associates are reported as planning drilling two artesian wells and con-structing water-works, with John G. Willacy of Corpus Christi, Tex., in charge of work. (See "Miscellaneous Enterprises.")

Va., Lynchburg.-Virginia State Epileptic Va., Lynchourg.—Virginia State Epiceptic Colony, Dr. A. 8. Priddy, executive officer (recently noted to construct system to pipe water from Lynchburg, across river, to col-ony, 5000 feet), will expend \$4000 in pipe line, \$2500 for tower, tank and engine; will install turbine centrifugal pump, connected with six-horse-power electric motors; 25,000-gallon cypress tank on 60-foot steel tower; will open bids on construction work July 25; machinery bids to be announced later; C. L.

The Mayor

WOODWORKING PLANTS

Ala., Anniston—Tables, etc.—Lehman Man-ufacturing Co. will install additional machinery for manufacture of kitchen tables and safes.

Ky., Celly Owensboro -- Cabinets. Kelly Manufacturing Co. and Owensboro Seating & Cabinet Co. have consolidated and incorporated as Ohio Valley Manufacturing Co. : E. M. Barnes, W. A. Steele, S. R. Ewing id others, incorporators.

Ky., Louisville—Staves and Cooperage.— Chess & Wymond Company increased capital stock from \$200,000 to \$1,000,000.

I.a., New Orleans — Sashes, etc. — Berling Sash, Door & Blind Co. incorporated with \$10,000 capital stock; Fred Huerkamp, presiorge Huerkamp, secretary-treasurer; Henry Huerkamp, Jr., vice-president.

Miss., Jacobs-Staves.-Columbia Stave Co. incorporated with \$10,000 capital stock by John Buettner, Jacob Herling, Robert Brank-stone and others, Memphis, Tenn., and E. C. French, Shaw, Miss.

Tex., Houston-Handles.-Texas Har will erect plant on Waverly St.; brick and wood; factory building, 100x24x24 feet; office, 16x14 feet; stable, 40x18 feet; estimated cost

W. Va., Bluefield-Rug Racks.-G. S. Catzen of Home Furniture Co. will establish plant for manufacturing patented rug rack.

BURNED

Ark., Walcott,-Bank of Walcott: Walcott Mercantile Co.'s building, owned by Dacus & ws : loss \$12,000.

Fla. Plant City.-Plant City Courier's plant and offices; building owned by W. B. Herring; total loss \$5000.

Ga., Clyde. — Bryan county jail. Address County Commissioners.

La., Jena.-G. G. Russell's residence, barn nd stables; W. P. Myers' building; total and loss \$7500.

La., Slaughter,-Slaughter Gin Co.'s plant : Mo. Kansas City - American Reduction

rtilizer Co. at 19th and Wyoming Sts.; le

N. C., Aberdeen.—Aberdeen Sash & Blind Co.'s factory; loss \$50,000.

Okla., Enid.—Hotel owned by Polk Causic and occupied by Henry Block; loss \$3500. Okla., Enid.—City Hotel; loss \$25,000.

C., Columbia.—Grimes Cowper's barn; estimated loss \$5000.

8. C., Laurens.—J. L. Hopkins' store; loss on building, owned by C. E. and H. S. Kennedv. \$3000.

Tenn., Bristol. - Hamilton-Bacon-Hamilton noany's wareh

Tenn., Franklin.-Pryor, Lillie & Co.'s grain loss \$25,000

Tex., Amarillo.—Amarillo Ice & Cold Storage Co.'s plant; loss \$100,000. Tex., Fort Worth .- C. T. Burns' residence;

Tex., Sherman. — Buildings at Grayso County Poor Farm; loss \$4000. Addre

County Commissioners. Lynch Station.-J. W. Frazier's sto and dwelling; E. Taylor's postoffice; J. Anthony & Bro.'s store; Webb & Frazier store and Warehouse; R. D. Smith's tele-phone exchange and hotel; total loss \$50,000.

Va., Wise .- J. C. Richardson's residence : ars' buildings; Judge Bond's build loss \$16,000.

W. Va., Pledmont.—Crystal Candy Kitchen, Horace P. Whitworth, president.

BUILDING NEWS

BUILDINGS PROPOSED

APARTMENT-HOUSES

Fla., Jacksonville.-I. Cox will erect apart nent-house; brick and stone; three or four stories.

Fla., Jacksonville, -- John S. Flanagan, San Antonio, Fla., will erect apartment and store building; five stories; lower floor es; upper floors apartments

Fla., Jacksonville.—Dr. J. C. Bishop, Ala-chua, Fla., has plans by Fred A. Bishop, 302 Candler Bidg., Atlanta, Ga., for apartment

ASSOCIATION AND FRATERNAL

Fla., Jacksonville.—Odd Fellows' Building Corporation chartered with \$150,000 capital Stock: Marcus Conant, president; John H. Ek, vice-president; J. C. Connelly, secretary-trensurer; plans erection of lodge and office building.

S. C., Columbia.—C. P. Younts, a secretary, advises that E. M. Dupre. man, or D. W. Robinson, secretary building committee, should be addressed for informa-tion relative to proposed \$100,000 Young Men's Christian Association building. (Recently noted.)

S. C., Sumter.-Young Men's Christian Asociation will erect building.

Tenn., Nashville.—Grand Lodge State of Tennessee, Ancient Free and Accepted Ma sons, will expend \$20,000 for erection of addi tion to building at 306 Seventh Ave., to be sed as auditorium

Tex., Mexia,-American Women's League, Louis, Mo., will expend \$3000 to opter-house; 38x42 feet; stucco; perifications, contracts, etc., are all pecifications. ished from headquarters; contract will not let for some time.

W. Va., Thurmond.-II, M. Personnet re-ceived bids until July 20 for erection of Ma-

W. Va., Thurmond.-Sewell Chapter No. 24, W. Va., Initialization, Wasons, having plans prepared by H. Ru-Warne, Charleston, W. Va., for 42x90-foo-lodge building; date of opening bids not se-Address H. M. Personett. (See "Machinery

BANK AND OFFICE BUILDINGS

D. C., Washington.-S. W. Woodward of Woodward & Lothrop, 10th, 11th, F Sts. N. W., is reported as planning erection of office building at 15th and H Sts. N. W.

Fla., Jacksonville. - Odd Fellows Building Corporation, Marcus Conant, president, erect office and lodge building. (See "A ciation and Fraternal.")

Ky., Lone Oak, R. F. D. from Paducah.— Bank of Lone Oak, E. Futrell, president, will erect two-story bank building; 40x60 feet.

La., New Orleans,-Teutonia Bank & Trust Co. will remodel present structure and erect addition; solid bronze doors in vestibule in front; polished plate-glass doors in rear; vault concrete, interlaced with steel bars and lined throughout with heavy plates of steel and equipped with time lock and auto-matic steel gate inside; tiled floor; St. Charles St. and Union St. entrances faced with white marble; steam heat,

La., Opelousas.—Union Bank & Trust Co will expend \$10,000 to erect bank building re ently noted: 40x70 feet; brick and stone hot-water heat; electric lighting; architects invited to submit sketches of one and two-story bank buildings; successful architect to

weelve appointment.

Md. Baltimore.—Following contractors will ubmit bids on erection of office building for Benjamin S. Fidelity & Guaranty Co.: nnett Building Co., 123 South Howard St.; igineering-Contracting Co., 592 St. Paul : Neel Construction Co., U. S. Fidelity & airanty Co. Bidg., Calvert and German s.; J. Henry Miller, 106-108 Dover St., ali Guaranty of Baltimore; plans by Otto G. Simonson, 1210-1211 American Bldg., Baltimore; bids will be opened July 25. (Further facts re cently mentioned.)

Md., Hampstead. - First National Bank purchased site corner Main and Shiloh Sis. and will erect bank building; brick and In-diana limestone; two stories and basement; plans have been prepared.

Mo., St. Louis.—S. D. Rossi has plans by Gustav P. Wuest, St. Louis, for erection of office building northeast corner Delmar Blvd. and Kingshighway; five stories; 167x110 feet; fireproof; 112 offices and 14 stores; equipped with compressed air, gas and electric lights; floors of corridors of pink Tennessee marble: Carrabo white marble wainscoting, with black marble base and capping; two eleva-tors; vacuum heating and cleaning system; estimated cost \$200,000.

N. C., Charlotte. - Commercial ? Bank will remodel building for bank. orcial National

Okla., Oklahoma City. - Southwest Mort-gage Co. reported to erect 16-story fireproof office building: architects, Layton, Smith & Hawk, Oklahoma City: site at northeast corner Main and Harvey Sts. leased from James M. Weaver of Cincinnati, O. (Mr Weaver recently incorrectly noted to erect Okla., Pawhuska. - Pawhuska National Bank will erect four-story bank building.

S. C., Elloree.-Ulmer-Irick Company has plans by E. J. & W. K. Dunne, Sumter, S. C., for bank and office building recently noted; two stories; 48x120 feet; brick and concrete; cost \$10,000; day's work. (See "Machinery Wanted.")

Tex., El Paso.-Galveston, Harrisburg & San Antonio Railway, A. V. Kellogg, engineer maintenance of way, Houston, Tex., has plans for erection of office building; three stories; reinforced concrete; mission style architecture.

Va., Montvale.-Buford County Bank will award contract July 29 for small brick and cement bank building; single story; 18x41 feet; plans by Overstreet and Wingfield.

CHURCHES

Ark., Little Rock. — Union African M. E. Church, Rev. Francis E. Ashford, pastor, is having plans prepared by J. S. McClellan for rection of church and Sunday-school corner Pulaski St. and Wright Ave.; 44x100 fee; pressed brick; main auditorium, seating ca-pacity 456; Sunday-school room in basement to have seating capacity of 300.

Ark., Van Buren.-First Methodist cong gation will erect \$20,000 edifice. Address The Pastor, First Methodist Church

Fig., Tampa,-Palm Avenue Baptist com rin., Tampa.—Palm Avenue Baptist con-gregation is preparing to begin erection of proposed edifice; pressed brick; terra-cotta trimmings; three towers; estimated cost, 35,000. Address The Pastor, Palm Avenue \$35,000. Rantist Church

Mark's Episcopal Ga., Brunswick. - St. Church has plans by Wallin & Young, Savan-rah, Ga., for erection of church; veneer pressed brick; stone trimmings; Gothic style irchitecture : approximate cost, \$20,000,

Ky., Midway. - Presbyterian Church will and remodel edifice; bids will be opened July 26; drawings and specifications on file at Citizens' Bank, Midway, and office of H. Walters, Board of Trade Bldg., Louisville, Ky.

La., Algiers.—Trinity Lutheran congrega-tion will erect church editice; cost \$7000. Ad dress The Pastor, Trinity Lutheran congre

La., Algiers, — Trinity Lutheran Church, Rev. Frederick Wambsgans, pastor, will erect edifice to cost about \$7000.

Mo., Joplin.—Methodist Church at Royal Heights will erect editice; concrete blocks; cost \$6000; Rev. T. B. Lawrence is pastor.

Md., Kensington.—Roman Catholic Church will erect ediffee; 40x80 feet; seating capac-ity 200. Address Rev. Charles O. Rosensteel, St. John's Catholic Church, Forest Glen, Md.

N. C., Asheville,—Trinity Episcopal congregation has asked for bids for erection of edifice; frame; seating capacity about 200; ost \$3000 to \$4000; stone foundation Address The Pastor, Trinity Epis-

N. C., Monroe.-St. Paul's Episcopal conregation contemplates erecting edifice to ost \$6000. Address The Pastor, St. Paul's Episcopal Church.

N. C., Morven.-Methodist Church, J. M. Little, chairman building committee, will open bids August 1 for erection of edifice re-cently noted; seating capacity 500; hot-air heat; electric lighting; cost \$10,000; plans by Louis H. Asbury, Charlotte.

Tex., Dallas.—Mount Rose Negro Baptist congregation will erect edifice; frame; 50x90 feet : cost \$8000. Address The Pastor, Mount e Negro Baptist Church.

Va., Norfolk.—Owens Memorial Methodist piscopal congregation will erect editice. ddress The Pastor, Owens Memorial Methodist Episcopal Church.

CITY AND COUNTY

Ala., Birmingham—Stockade, Fire Stations, stc.—City contemplates erection of stockade for female prisoners on Red Mountain; also ection of two fire stations. s The Mayor.

Ark., Little Rock-Fire Station.—Board of Public Affairs will receive bids until July 25 for erection of fire station in Jones & Worthen's Addition; plans and specifications at office of chief of Fire Department; sepa-rate bids for taking frame building on prop-erty for part payment and erection of building with ground cleared; also for sale frame building, to be removed at once by purchaser; F. M. Oliver, clerk of board.

Ga., Macon-Fair Building.-Finance co aittee appropriated \$3000 for erection of dditional building at Central City Park for nal

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La.. Lake Charles—City Hall.—City has voted issuance of \$350,000 bonds for erection of city hall and for sewers, streets, etc. Address The Mayor. (Lately mentioned.)

three baths and reception hall; garage in rear: cost \$25,000.

D. C., Washington.—Philip A. Rosendorn, 1919 Ensor St., Baitimore, Md., will erect 1920 brick-veneered residence.

La., New Orleans-Engine-house,-City has plans by E. A. Cristy, New Orleans, for pro-posed engine-house at Carrollton Ave. and Moss St.; two stories; brick and stucco; cost

Tenu., Knoxville—Exposition Building.—A.
D. Collier, chairman; Wm. Knabe, secretary. and others, committee representing Knox county, will receive bids until July 25 at effice of R. F. Graf & Son, architects, Knoxville Bank and Trust Bidg., Knoxville, for erection of County Fair building on Appalaerection of county Pair building on Appaia-chian Exposition grounds, Chilhowee Park; 50x06 feet; one story; 32 feet high; 10-foot beleony entirely surrounding interior; Grecian style; cost \$5000; plans and specifi-cations at office of architect as above; James G. Johnson, County Attorney.

Tenn., Nashville — Hospital. — Davidson County Asylum Commissioners, at office of John F. Gaffney, chairman, 329½ Fourth Ave. north, will receive bids until July 30 for erection of annex; recent bids rejected; bids to be on departments separately; certified check for 5 per cent. amount of bid; plans and specifications at office of Asmus & Norton, architects, 72-74 Cole Bidg., Nashville. (Recently noted.)

Tex., Austin-Fire Station.—City Clerk re-ceived bids until July 20 for erection of fire-hall for Tenth Ward Fire Company; two stories; 50x100 feet; red pressed brick; limestone trimmings; fire escape; cost \$7500; cer-tified check for 19 per cent, amount of bld; plans and specifications at office of C. H. Page & Bro., architects, Austin. (Recently

Tex., McKinney-City Hall and Jail,-Bids will be received until July 28 for practice of rex, McKinney—City that and Jah.—Boos will be received until July 28 for crection of combined city hall and fire station; certified check for \$50; plans and specifications at office of Flanders & Flanders, architects, Dallas, or of R. F. Dowell, City Secretary.

Va., Clifton Forge-Jail.—City Council is considering voting on issuance of \$65,600 bonds for construction of jail. Address The Mayor. (See "Road and Street," "Sewers"

Va., Norfolk-Police Headquarters.-Public Improvement Co. has tentative plans by John Kevan Peebles, Norfolk, for proposed pelice headquarters building at Cove and Avon Sts.; three stories; granite and brick; frontage 88 feet; morgue adjoining; electric elevator; heating plant in basement; waterproofing system : cost \$45,000.

Va., Richmond - Fire Department. - City will expend \$14,000 for improvements to fire department. Address The Mayor.

COURTHOUSES

Ark., Rison.—Cleveland county is having plans prepared by Theo. M. Sanders, Little Rock, Ark., for courthouse; pressed brick and stone; tile floors and roof; steam heat;

Mo., Springfield.—Green county will erect ourthouse; reinforced concrete; fireproof; Mo., Springfield.—Green county will erect courthouse; reinforced concrete; fireproof; burglar-proof vaults; exterior finished in Phoenix stone; interior in marble; 192x88 feet; three stories; cost \$225,000; T. K. Bow-man, superintendent. (Previously men-tioned);

Okla. Nowata.—Nowata county voted \$55,000 band issue to erect courthouse. Address County Commissioners.

Tex., Port Lavaca.—Calhoun County Com-missioners' Court will receive competitive plans and specifications for courthouse until July 27; cost not to exceed \$40,000; bids for price of plans separate from costs of archi-tects' services; Willet Wilson, County Judge; W. C. Best, County Clerk. (Recently men

DWELLINGS

Ala., Birmingham. — W. L. Sessions will rect dwelling; two stories; cost \$4000.

Ala., Birmingham.-W. M. Franklin will erect two dwellings on Thirteenth Ave. near 21th St.; two stories; cost \$3300 each.

Ala., Birmingham.—Crawford Johnson, address, care of Coco-Cola Bottling Works, will open bids July 20 for erection of dwelling recently noted; brick veneer; concrete founda-tion; hot-water heat; electric lighting; esti-mated cost, \$20,000; plans by Warren & Wel-ton, 1607 Empire Bidg., Birmingbam.

D. C., Washington.—John M. Henderson. 1418 F St. N. W., will erect seven dwellings on R St. and Florida Ave.

C., Washington.—Ralph Galt, Indiana and 1st St. N. W., will erect residence un's Addition; three stories; 12 rooms;

D. C., Washington.—Philip A. Rosendorn, 1919 Ensor 8t., Baltimore, Md., will erect residence in Northwest Park.

Ga., Augusta. — Frank Caple of Augusta Railway & Electric Co. is having plans pre-pared for erection of residence.

Fla., Greenville.—C. L. Leggett has plans y Fred Bishop, 372 Candler Bidg., Atlanta, or proposed dwelling; one and a half sto les; 40x70 feet; nine rooms; cost \$2500; day's work.

Fla., Jacksonville.-S. G. Wilkins erect two-story frame dwelling; cost \$3000,

Fla., Jacksonville.-W. R. Burt will erect residence; two stories; frame; brick ve-neered; cost \$7000.

Ga., Augusta.-Thomas Barrett, Jr., creet two-story double brick tenement house;

Ga., Atlanta.—E. Reid has plans by Leila Ross Wilburn, 205 Peters Bidg., Atlanta, for proposed dwelling; seven rooms; one story; 50x80 feet; frame; tile roof; tile floor; hot-air heat; gas and electric lighting; cost

Ga., Decatur.—W. A. Ozmer has plans by Leila Ross Wilburn, 305 Peters Bidg., Ar-lanta, for proposed dwelling; two stories; 45x59 feet; frame; slate roof; tile floor for porch; hot-air heat; gas and electric light-ing; cost \$5090; construction by owner.

La., New Orleans,-Hirsch-Levy Real Estate Co, will erect \$5000 building

La., New Orleans.—Mrs. S. Gonzales will rect residence; cost \$6500.

La., New Orleans.-Mrs. John Blank will erect double two-story residence; cost \$4500. La., New Orleans.—Frank Fox will erect residence; two stories; cost \$3250.

Md., Baltimore.-M, N. Mayhoff has award ed contract to J. H. Miller, 106 Dover St., Baltimore, for erection of dwelling at Ten Hills; two and one-half stories; frame; plans Owens & Sisco, 1605 Continental Bldg.

Md., Baltimore.-W. T. Schindler, Tenth and Eigin Aves., will expend \$4500 to erect dwelling recently noted; 28x31 feet; frame; steam heat; gas and electric lighting; hard wood floors; tile bath; plans by Henry J Tinley, 314 North Charles St., Baltimore.

Md., Baltimore.—Jacob Cohen will receive bids until July 29 for erection of store and dwelling at Park Heights and Belvedere Aves.; contractors estimating are J. S. Moke, Hoffman Bldg.; R. B. Mason, 15 East Fay-ette St., both of Baltimore; plans by Jacob F. Gerwig, 210 East Lexington St., Baltimore, (Previously noted.)

Md., Baltimore.—Charles Stoner, 1927 West Lombard St., will erect six dwellings on Brice St.; two stories; 12x45 feet; cost \$8000.

Md., Baltimore. — Teofil J. Skalinski, 52s South Bond St., will erect two stores and dwellings at 1517-19 Eastern Ave.; three sto-ries; brick; 13x51 and 17x51 feet; cost \$3290.

Md., Baltimore.-Dr. N. H. D. Cox, Rogers and Park Heights Aves., will erect residence at Pimlico Rd. and Rogers Ave.; two and a half stories

Md., Baltimore.—Frank Novak, 2800 East Jefferson St., has plans by J. F. Hirt, 2800 Jefferson St., for five dwellings on Orleans St.; two stories; brick; four 13x44 feet; one 15x50 feet; cost 56680

Md., Baltimore. — John T. Donohue, 1808
Thames St., has plans by M. R. Stone, 2238
East Hoffman St., Baltimore, for 34 twostory brick dwellings; 16 on Potomac St., 15
of which will be 12x43 feet, 1 15x48 feet; 18
on Hare St., 16 of which will be 12x41 feet,
the other two 12x44 feet; cost \$35,000.

Md. Roland Park. — J. Ross Myers, 500
Hawthorn Rd., has plans by Howard Sill, 11
East Pleasant St., Baltimore, for residence
at University Parkway and Overhill Rd.;
two stories and attic; 38x45 feet; porch 18x37
feet; brick construction; hot-water heat.

Md., Roland Park.—William G. Nolting of Wyatt & Nolting, Keyser Bldg., Baltimore, Md., prepared plans for and will erect resi-Md., prepared plans for and will erect residence on Midland Rd.; brick; colonial style; porch at one end; portico at front; cost \$29,000; contractors estimating are John Cowan, 106 West Madison St.; Gladfelter & Chambers, 2072 Woodberry Ave.; W. E. Harn & Co., 2700 Huntington Ave.; A. F. West, 217 South Gilmor St.; M. C. Davis, 5 Hopkins Pl; all of Baltimore, Md.; Roland Park Co. of Roland Park of Roland Park.

Tenn., Chattanooga.-S. D. Reynolds receive bids at once for erection of dwelling recently noted; nine rooms; two stories; cement floors to basement; brick and stucco; shingle roof; hard pine interior finish; hot-air heating plant; gas and electric lighting;

Tenn., Nashville.-E. F. Terry will erect stone-veneered residence: cost \$3000.

Tenn., Nashville,-L. B. Fite will erect res two stories; brick veneered and stucco; cost \$4100.

Tenn., Nashville.-W. W. Banks will erect

Tenn., Nashville.—A. M. Hagan has plans y C. K. Colley, Nashville, for two story

Tenn., Selmer .- F. Wilson will erect resi-

Tenn., Selmer.-William Browder will erect

Tenn., Selmer.-8. E. Peeples will erect

Tex., Cuero,-W. M. Ratcliffe will erect

Tex., Dallas.—J. E. Lee, Box 234, will open bids about August 1 for erection of residence recently mentioned; 47x39 feet, with porches and terraces; two stories and basement; hot-water heat; plans by C. D. Hill & Co., Dal-las; cost \$10,000 to \$12,500. (See "Machinery Wanted.")

Tex. Houston.-A. L. Metcalf will expend \$800 to erect dwelling recently noted; 54x46 feet; wood, rough plaster exterior; tile roof; gas grates; gas and electric lighting; pians and construction by owner,

Va., Capron.—Vincent & Drewry will erect twellings in connection with development of ooo acres of land. (See "Land Develop-

Va., Bristol.-J. A. Stone will not at present erect dwelling recently noted.

Va., Richmond,—H. J. Myers will erect dwelling at 2624 Park Ave.; two stories; brick; cost \$5000.

Va., Staunton.—Virgil P. Randolph of New York purchased Estonville tract for \$60,000 and is having plans prepared by Noland & Baskerville of Richmond, Va., for \$160,000 home; will install electric-light plant and telephone system; contract for electrical work awarded to Shenandoah Electric Co. of

GOVERNMENT AND STATE

D. C., Washington - Jail. - James Ku Taylor, Supervising Architect, Treasury I Taylor, Supervising Architect, Treasury Department, is preparing plans for remodelling U.S. [adl: will install 299 layatory equipments; cost \$20,000; remodel kitchen; install electric lights; improve heating facilities; about \$36,000 will be expended for interior improvements; exterior improvements will consist of replacing slate roof and erecting nine-foot fence around building, etc.

D. C., Washington — Postofflee, — Treasury I epartment, James Kuox Taylor, supervising architect, approved plans by D. H. Burnham & Co., Chicago, Ill., for proposed postofflee building to cost \$3,000,000; will have 70,000 feet floor area; main floor on level with Union Station and connected with same by building to contain power and heating plant, mail-bag repair shop, mail lock shop, motor repair shop, postal supplies, dead-letter office, etc. Due announcement will be made

Fla., Jacksonville-State Hospital. - State Beard of Health has accepted plans by Rob-inson & Reedy, Jacksonville, and will soon invite bids for erection of laboratory and general effices; two stories; reinforced con-crete with brick face; main building 50x80 feet; central portion extending in front and rear, making two large wings.

Md., Baltimore—Immigration Depot.—James Knox Taylor, supervising architect, Treasury Department, Washington, D. C., has 'asked Fureau of Immigration for suggestions pre-paratory to preparing plans for proposed immigrant station: \$30,000 is available for purchase of site and \$100,000 for erection of building.

8. C., Columbia-Hospital.-State Hospital for Insane, Dr. J. W. Babcock, superintendor issue, ir. J. W. Barcock, superintend-end, is having palus prepared for completion of, Taylor building and erection of three additional brick structures; construction to begin August 1; about \$150,000 will be ex-

Va., Fort Howard—Barracks, etc.—R. H. Richardson & Son, Hampton, Va., have con-tract at \$38,000 for construction of barracks. guard and store hou

HOTELS

Ala., Birmingham.—Fifth Avenue Hotel Co. is being organized by Brown Bros. & Co., Frank Nelson, Jr., W. P. G. Harding and

Steiner Bros, to erect hotel on Fifth Ave.; 12 to 14 stories; 399 rooms; fireproof; site 100x140 feet; plans by New York architect; cost, including site, \$900,090; furnishings estimated to cost \$150,000.

Ala., Birmingham.—Brown Bros. & Co., Frank Nelson, Jr., W. P. G. Harding and Steiner Bros. are organizing company to erect hotel; 12 stories; fireproof; site 109x149 feet : estimated expenditure, \$1,000,000 ; plans by New York architects.

Ark., Argenta.-Lasker Bros., Little Rock, Ark., has plans by H. J. Harker, Little Rock, for erection of hotel at Washington Ave. and Maple St.: cost \$35,000.

Ark., Ashdown.—J. M. Johnson will expend \$55,000 to \$40,000 on hotel recently noted; three stories and basement; 88x96 feet; brick; electric lighting; bids opened July 25; plans by Senbert & Witt, Texarkana, Ark. (Recently incorrectly located at Texarkana.)

Ark., Ravenden Springs.—Ravenden Springs totel Co. incorporated with \$100,000 capital tock by H. B. Buli, P. C. Hawkins and Isaac Ebbert.

Fla., Jacksonville.—John J. Ahern will re-nodel St. James Hotel and probably creet additional story.

Fla., Jacksonville.—O. J. Olmstead will erect eight-story hotel with three-story annex; brick and stone; plans by Goold C. Butler, Jacksonville.

Ky., Georgetown, —Lancaster Hotel will erect two additional stories over entire hotel, including wing now in course of construc-tion, giving capacity of 100 rooms.

N. C., Charlotte.—R. M. Miller will expend \$50,066 for improvements to Buford Hotel; re-ported to install telephones and elevators.

Okla., Tulsa.—Tulsa Building Co. will have plans ready by August 15 for 10-story hotel building recently noted; 140x150 feet; fre-proof construction; 300 rooms with bath, 200 without; cost \$250,000 to \$400,000; F. W. Hunt, Springfield, Mo., architect, may be ad-

Tenn., Celumbia.—T. E. Gordon and J. A. Titcom of Beaver Dam Company are arranging to rebuild Beaver Dam Hotel at Beaver Dam Springs: to accommodate 75 to 199; Install hydraulic rams and complete water-

Tex., Dallas.—Adolphus Busch, St. Louis, Mo., has plans by Barnett, Haynes & Barnett, Frisco Bidg., St. Louis, for hotel; 20 stories; Lauis XIV style; casement windows, with ornamental fron guard balconies; red velvet brick, trimmed with Bedford stone; entrance covered by wrought metal canopies constructed of bronze and glass; French roof; roof garden; Circassian walnut and gold lobby extending through two stories to glass-domed roof, with balconies from second story; elevators; marble plunge in baseand story; elevators; marble plunge in base ment designed in Pompeian style; cost \$1,900, 500; Edward A. Faust of St. Louis and com-mittee in charge of construction. (Previously noted.)

Tex., El Paso,—Charles and A. C. De Groff will rebuild and refurnish holdy and base-ment of Sheldon Hotel; cost \$50,000 to

Tex., El Pase,-W. C. Davis and Z. T. Tex., El Paso,—W. C. Davis and Z. T. White and others are interested in proposed erection of hotel at Overland and Oregon Sts.; 208109 feet; ten storbes; estimated cost, \$500,000; ground floor under hotel to contain 14 offices and stores.

Tex., Portland.—Charles P. Taft of Cincin natl, O., and associates are reported as danning erection of hotel, pavillons and conthouses, with John G. Willacy of Corpus Christi, Tex., in charge of work. (See cellaneous Enterprises.")

Tex., 8). Paul (not a postoffice).—International Land & Investment Co. of Omaha. Neb., has plans by Herbert S. Green, San Antonio, Tex., for hotel; 29 rooms.

Tex., Weatherford.—Joel W. Hicks will re-model building and erect addition for hotel;

MISCELLANEOUS STRUCTURES

Ala., Bessemer-Clubhouse.-Mr. Van Trum; and others interested in erection of country and automobile clubhouse at West Lake, one and one-half miles from Bessemer; cost \$500).

Ark., Helena—Guildhouse.—St. John's Epis-copal Church vestrymen have purchased site corner Perry and Pecan Sts. and will erect guildhouse; 132x132 feet; two stories; artiguildhouse; 132x132 feet; two stores-ficial stone; roof garden and gymnasiu

Fla., Pensacola — Grandstand, etc.—Hart Dernham of Pensacola and Mr. Stroud, St. Louis, Mo., will erect grandstand, paddock and stables at Kupfrian race track.

Fla., Tampa-Clubhouse.-Tampa Automa-

bile Club has accepted plans by Fred J. James, Tampa, for erection of proposed club-house at Rocky Point; two stories and base-ment; concrete; cost \$10,000; building for golf equipment and gymnasium will probably be built later. (Lately mentioned.)

La., Clinton — Auditorium. — Company has been organized with \$5000 capital stock by W. J. Sebastian, president; I. L. Heyman, vicepresident; Ed Leboze, secretary; L. E. Brigurer: to erect auditorium; brick;

Md. Raltimore-Hospital.-Pittsburg Build-Md., Baltimore—Hospital.—Pittsburg Bulld-ing Co., Pittsburg, Pa., is prepared to begin erection of proposed Phipps Psychiatric Clinic building at Johns Hopkins Hospital, Monument and Wolfe Sts.; building will be 175x200 feet; five stories; brick; estimated cost, \$750,000 to \$1,000,000; plans by Grosve-nor Atterbury, 20 West 43d St., New York; Dr. Henry M. Hurd is superintendent of hos

S. C., Yorkville.-Deaconesses of Episcopal Church have plans by Sayre & Baldwin, An derson, S. C., for proposed orphanage; two stories; 16 rooms; steam heat; electric lighting; cost \$10,000.

Tenn., Chattanooga-Business Block.-R. L. Davis and M. C. Bonds will erect business three stories; brick construction; ed-brick front.

Tex. Cleburne-Settlement Building.-First Raptist Church will erect settlement build-lng; 40x00 feet; two stories and basement; cost \$10,000. Address The Pastor, First Baptist Church.

Va., Petersburg-Fair Buildings. tural Fair Association contemplates pur-chase of 22 acres for fair purposes and ex-penditure of \$3000 for buildings, etc.

RAILWAY STATIONS

Ala., Tuscaloosa.-Alabama Great Southern Alla, Iuscanosa.—Anama der souther Raifroad, C. Dougherty, engineer maintenance of way, Cincinnati, O., will erect \$25,000 station building; size of present structure; fireproof; hot-air heat; electric lighting; plans, by company, not fully determined; bids not yet asked.

Fla., Fort Dade.-Seaboard Air Line Rail y, W. L. Seddon, chief engineer, Portsouth, Va., will, it is reported, erect depot.

Tex., Round Rock.-International & Great Northern Railroad, O. H. Crittenden, con-sulting engineer, Palestine, Tex., has plans, it is reported, for passenger station.

x., Wichita Falls.—Fort Worth & Denver Railway, R. C. Gowdy, chief engineer, Worth, Tex., and others (recently reported as having plans prepared for erection of union station) have awarded contract to Texas Construction Co., Fort Worth, Tex., for erection of structure: two stories; 230x60 feet; estimated cost, \$100,000.

Va., Norfolk.-Norfolk Terminal Raily Co., L. E. Johnson, president, Roanoke, to, the E. Johnson, presented, honories, the has plans completed by Reed & Stem, 7 East 42d St., New York, for union passenger sta-tion, and is now preparing to advertise for bids; site has frontage of 400 feet on Main St. and same on Archer's La.; brick and steel construction with granite base and terra-cotta trimmings; fireproof; marque, shelter shed, concourse and carriage door; trackage facilities; main station or office building will be eight stories and one mez-zanine, 51x200 feet, and 123 feet high; wait ing-room and annex building, 53.8x140 feet; power, baggage and express building, 35x330 two fast elevators; heating by steam and forced hot air: cost of office building, \$500,000; station will be used jointly by Vir-ginian Railway, Norfolk & Western Railway and Norfolk & Southern Railway : Raymo al manager of Virginian Rail way, Norfolk. (Previously mentioned.)

SCHOOLS

Ala., Florala.—City has voted issuant onds for erection of \$12,000 school. Ac The Mayor.

Ark., Helena.—City will arrange to erect \$25,000 school; G. L. Davidson, Jacob Fink and A. N. Tanner, trustees.

Ala., Highland Home.-Church of Dis of Christ have taken over properties of High of Christ have taken over properties of High-land Home College, Samuel Jordan, presi-dent; will make improvements, including in-stallation of water works, electric-light plant, remodeling buildings, erecting new stallation of

Ala., Lineville.-Lineville College will erect

\$15,000 building.

Ala., Midland City.—A. J. Beverett, Mayor, states that school building recently noted is under construction, superintended by J. J. Harrison, architect, Midland City; two stories; brick; metal roof; hot-air or steamheat; acetylene gas lighting or lamps; cost \$6000. (See "Machinery Wanted.")

Ark., Lake Village.-Lakeside School Board contemplates erection of addition to school and installation of heating, lighting and ventilating systems; cost \$13,000; also plans reaction of school for negroes; fram classrooms; cost \$6000; plans for be Theo. M. Sanders, Little Rock, Ark.

Ark., Rogers.—School Board is planning to rect \$50,000 school; G. P. Harben, president.

Ark., Warren,-W. S. Hobbs, chairman of Aria, Watter.—W. 2. 10008, charman of building committee, will receive bids until August 20 for erection of high-school build-ing; three contracts—(1) general, (2) heating and ventilating, (3) plumbing; certified check for \$25 with requests for plans and

Fla., Miami,-Dade County School Board elve bids until September 6 for er school; reinforced concrete and fi proof construction, or preferably Miami rock electric wiring: 220x120 feet: two stories and isement; auditorium to seat 1000 students; le roof or asbestos shingles; cost \$55,000; ans by W. C. De Garmo, Miami. (Previously noted.)

Fla., White Springs.—City contemplates ote on bond issue of about \$5000 for school building; G. S. Mobley, Mayor. "Water-works.")

Ga., Atlanta.-City has plans by E. Wachendorff, 527 Empire Bidg., Atlanta, for proposed remodelling of two school buildings; brick and wood; cost \$7500 and \$8500.

Ga., Augusta.-Richmond County Board of Education will remodel and enlarge Rich

Ga., Carlton -City voted \$5000 bond issue erect school. Address The Mayor

Ga., Lagrange.-Lagrange College will ex pend \$30,000 to erect gymnasium, school dormitory recently noted; 50x100 feet; stories; fireproof construction; steam heat electric lighting; plans by Park A. Dallas, Atlanta, Ga.; bids opened July 20. Address proposals to J. M. Barnard.

Ga., Macon,-Alexander Free School Board W. R. Cox. president, appropriated \$10,000 for erection of school at Clinton and North Highlands River Rd.; brick; two stories; constructed to permit erection of additional story; size 75x89 feet; wood; brick veneer; steam heat; gas lighting; cost about \$15,000; architect not selected.

Ky., Elkton. - Vanderbilt Training Schoo! fill expend \$4000 in improvements to main building and Elliott Hall dormitory.

Ky., Lexington.-Board of Education will erect model school.

La., Amite.-Deposit of \$10 (not \$100, as cently stated) will be required by applicants for plans and specifications for High School; will receive bids until August 1; plans and specifications on file at office of Contractors and Dealers' Exchange, New Orleans, and of Xavier A. Kramer, architect, Magnolia, Miss

La., Gretna. - Jefferson Parish School Board will receive bids until August 15 for ction of brick school; certified check for); plans and specifications at office of evens & Nelson Company, 1109 Hennen Bidg., New Orleans, La.

La., Kentwood.-City will expend \$30,000 to erect school building; 127x84 feet; ordinary construction; slate roof; hot-air heat; elec-tric lighting; plans by C. J. Hunt, Chatta-nooga, Tenn. (Bond issue recently noted.)

Md., Baltimore.—Fidelity Construction Co., North and Lexington Sts., is lowest bidder at \$54,300 for erection of addition to No. 60 school; plans by Archer & Allen, Savings Bank Bldg., Baltimore. (

Md., Baltimore.—City has plans by Alfred Cookman Leach, 323 North Charles St., Balti-more, for proposed school at Ann St., near Canton Ave.: two stories: brick: 24 rooms: at \$110,000.

Miss., Starksville,-H. A. Beattle, mayor, receive plans for addition to public is; cost \$5000; also for frame negro school to cost \$3000.

N. C., Wilmington.—J. A. Taylor, chairman of building committee, will receive bids until July 22 for erection of brick school; plans and specifications on file at office of F. Leitner, architect, Garrell Bldg., Wil-

Okla., Tipton.-City voted issuance of \$10,is for erection of school. The Mayor.

Tenn., Raleigh. — Shelby County School Board, Memphis, Tenn., will erect school near Raleigh for pupils of Raleigh, Brooks ind Egypt.

Tex.. Anderson. - Anderson Independent School District voted \$5000 bond issue to erect school. Address District School Trus-

pendent School District voted \$20,000 bond

Tex., Colorado.—Bids will be received until uly 28 for erection of brick stone-trimmed school; contractor to state time of comple tion and value of old material on ground to tion and value of old material on ground to be used in erection; certified check for \$500 plans and specifications on file at office of A. O. Watson, architect, Austin, Tex., of City National Bank, Colorado; S. D Vaughan, secretary, Colorado.

Tex., Grapeland.-City contemplates issuance of bonds to erect school; George Darsey, M. D. Hurchison and others, school trustees.

Tex., Houston.-City Secretary will receive bids until July 25 for erection of eight-raddition to Fannin Schools; work to be in three separate parts, as follows: (1) eral work; (2) plumbing, sewering and gas fitting; (3) steam heating; blds to be sub-mitted on blank forms attached to specifi cations; plans and specifications at office of City Secretary of Houston or of Olie J. Lorehn, architect, of Houston; certified check with general contract bid for 4½ per cent. amount of bid; with other bids for 10 per cent. amount of bid; H. B. Rice, Mayor.

Tex., Mart.—Bids will be received until ugust 10 for erection of school; certified check for 4 per cent, amount of bid; plans and specifications at office of William Drago architect, 715 Hennen Bldg., New (La., and of T. M. Wilson, Mart, Tex.

Tex., Sanderson.—School Board, T. R. Kuy-kendall, secretary, will receive bids until July 26 for erection of school; two stories; brick; plans and specifications on file office of Henry T. Phelps, architect, San Antonio, Tex., and at office of secretary.

Tex., Weatherford.—Texas Fairmont Semi-ary is preparing to erect \$15,000 dormitory. Tex., Yorktown. - City will erect \$20,000 chool; two stories; brick. Address The Mayor.

Va., Lexington.-Washington and Lee University has plans by B. C. Flournoy, 1129 14th St. N. W., Washington, D. C., for dining seating capacity, 200 students; cost

Va Rural Retreat -School Roard C. C. Catron, chairman, will receive bids until July 25 for erection of high school; plans and specifications on file at office of Clarnce B. Kearfott, Bristol, Va.

Va., Fredericksburg.-Building and group committee of State Normal and Industrial School for Women will receive bids until July 27 for furnishing material and erection of administration building; certified check for \$500, payable to R. H. L. Chichester, ourer: senarate bids for heating and treasurer; separate bids for heating and ventilating; plans and specifications on file at office of architect, C. M. Robinson, 1925-26-27 Mutual Bidg., Richmond, Va., or may be had on deposit of certified check for \$25; cifications on file I. Robinson, 1025-Alden Able, acting chairman.

Va., Richmond.-University College of Medicine has plans by Noland & Baskerville. iclne has plans by Noland & Baskerville, Richmond, for rebuilding burned college; four stories; brick and steel; 90x135 feet; elevators: forced-draught heating ventilating; cost \$100,000. (Previously

Va. Wytheville -- Town Council will erect

STORES

erect business building; two stories; brick; cost \$10,000. Ala., Birmingham.-W. B. Leedy & Co. will

Ala., Oneonta.-J. A. Brice & Son will ere building; two stories; 50x56 feet; cost \$1000.

Fla., Jacksonville.-John S. Flanagan, San Antonio, Fla., will erect store and apartment building. (See "Apartment-houses.

Fla., Tampa. - E. Neve will erect brick siness building; two storie

La., New Orleans.-John J. Zollinger will et \$3000 building.

Md., Baltimore. - Teofil J. Skalinski, 529 outh Bond St., will erect two stores and wellings. (See "Dwellings.")

Md., Baltimore.-Jacob Cohen will receive ids until July 29 for erection of store and welling; plans by Jacob F. Gerwig, 210 East Lexington St., Baltimore. (See "Dwellings.")

Md., Baltimore.-Thomas O'Neill of O'Neill & Co., Charles and Lexington Sts., has plans Baldwin & Pennington, Professional c., Baltimore, for business building at rles and Franklin Sts.; 142x63 feet; 64 feet high; four stories and basement; Indiana limestone; plate-glass windows; electric ators; hot-water or steam heat; electric gas lights; cost \$70,000; awarded congas lights; cost \$70,000; awarded con-to C. Ellinger, 36 West 25th St., Baltiore, for demolishing building now on site. (Recently noted.)

N. C., Winston-Salem.-J. A. and C. E. sennett will erect store at 2d and Liberty

Enid.-Waken Bros, will erect busibuilding; two stories; 25x120 feet: brick

Okla., Enid.-John Vessell will erect business building; two stories; brick.

Okla., Tulsa.-S. G. Kennedy will erect siness building: two stories: brick: cost \$16,000.

S. C., Charleston.-Paul E. Trouche will ebuild store building re-urned; plans not yet made.

S. C., Columbia.-Murray Drug Co. will open bids August 1 for erection of store building recently noted: 60x104 feet: mill construction; electric lighting; cost plans by Shand & La Faye, Columbia.

Tenn., Knoxville. - Anderson-Dulin-Varnell Tenn., Knoxville.—Anderson-Dulin-Varnell Company will open bids some time in fall for erection of store building recently noted; 10 stories; 50x120 feet; steel construction; coment floors; brick walls and terra-cotta trimmings; heating and lighting not decided; cost \$150,000; plans by R. F. Graff, Knoxville. Architect may be addressed.

Tex., Dallas.-J. B. Wilson, owner, will probably open bids about October 1 for erec tion of department-store building (for Titche-Goettinger Company) recently noted; 50x100 Goettinger Company) recently noted; 50x100 feet; fireproof; plans by Sanguinet & Staats, Fort Worth, Tex.

Tex., Olney.—G. W. Christian and T. E. nmes will erect business building; 25x70 feet : brick.

Tex., Lockhart.-R. L. Brown will erect brick business building.

Va., Norton.-J. Cohen will expend \$5000 to va., Norton.—J. Conen will expend \$0000 to erect store building recently noted; 25x110 feet; ordinary brick construction; tile floors; glass fronts; heating plant to cost \$1200: no contract; will install cabinets, shelves, showcases and other fixtures.

THEATERS

Md., Baltimore.-Knickerbocker Amusement Co. of New York has plans by Otto G. Slmonson, American Bidg., Baltimore, for the ater at 404-10 East Baltimore St.; seating capacity 2000; frontage 90 feet.

Tenn., Chattanooga.-Tennessee Realty & Leasing Co., H. T. Sperry, secretary, Nash-ville, Tenn., will receive proposals on pro-posed 200x50-foot vaudeville theater; cost within \$3,000; ordinary brick, with wood trusses; plenum blower system heat; elec-tric lighting; areade entrance; seating ca-pacity 1100; plans by A. Ten Eyek Brown, Forsyth Bldg. Atlanta, Ga. (See "Machinery Wanted.")

WAREHOUSES

Fla., Jacksonville.—Florida Warehouse & Deck Co. incorporated with \$300,000 capital Fla.; George L. Drew, vice-president; Geo. M. Powell, secretary; Frank Drew, treasurer, all of Jacksonville.

Fla., Jacksonville.-A. Ritzwoller will erect use on water front between Laura nd Hogan Sts.; two stories; brick;

Fla., St. Augustine.-A. W. Corbett will at foot of Bridge St.; feet; corrugated iron.

New Orleans.—Illinois Central Rail-A. S. Baldwin, chief engineer, Chicago, Ill., will, it is reported, erect three ware-

Ga., Savannah.-Union Sea Island Cotton Co. organized with \$25,000 capital stock to erect main warehouse in Savannah and branches at various places; J. M. Brewton, president, Claxton, Ga.; D. E. Jones, vicepresident, Manassas, Ga.; W. H. Hayes of Savannah, secretary-treasurer.

Md., Baltimore.-Charles J. Bonaparte, 216 Paul St., is having plans prepared for tion of warehouse at 6 South Charles St.

Md., Baltimore.—E. B. Hunting, 829 Equitable Bidg., has plans by Henry J. Tinley. 314 North Charles St., Baltimore, for erection of warehouse on South Gay St.; 23x55 feet; four stories; brick.

S. C., Conway.-Farmers' Tobacco Storage rehouse Co. incorporated with \$2000 stock; L. H. Burroughs, president; al stock; L. H. Burroughs, president; J. Coles, vice-president; W. A. Freeman, so tary and treasurer.

Tex., El Paso.-H. P. Noake will ere fireproof; superstructure floors of steel and concrete; steel windows and door facings.

Tex., Houston.-Nacogdoches Grocery will erect warehouse at Sterrett and Walnut Sts.; three stories and basement; reinforced

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concrete; 50x100 feet; cost \$20,000; plans by Lang & Witchell, Dallas, Tex.

Va., Richmond.—Binswanger & Co. will open bids July 19 for erection of warehouse recently noted; 30x135 feet; five stories; regular construction; cost \$18,000; plans by D. Wiley Anderson, Richmond. (See "Machin-

BUILDING CONTRACTS AWARDED

APARTMENT-HOUSES

Ga., Atlanta. - Lieutenant-Commander Moses, Norfolk Navy-Yard, Portsmouth, Va., awarded contract to G. A. Goodrich (address care of architect) for erection of proposed \$14,000 apartment-house; frame and brick reneer; two stories and basement; two apartments; size 60x90 feet; steam heat; electric and gas lighting; roof garden; plans by A. Ten Eyck Brown, Forsyth Bldg., At-

Md., Baltimore.-G. Milton Linthicum, Professional Bidg., awarded contract to Mon-monier & Sorrell, 308 Laurens St., Baltimore, for remodeling building at 817 Park Ave. for apartment-house and erection of addition.

Tex., Houston. — Geo. A. Byers awarded contract to A. L. Metcalf, Houston, for erection of proposed apartment-house; to have six apartments; wood construction; cost

Va., Portsmouth.—E. B. Wilkins, Portsmouth, has contract to remodel Plummer & Hodges residence on North St. Into apartment-house; cost \$6250; cost of heating and plumbing \$2000.

Va., Portsmouth.—W. T. Eastwood and A. Resenbaum awarded contract at \$12,000 for remodeling Odd Fellows' Hall into apartment-house; will erect additional story; three-story porch on each side; bay window on each side of portico.

W. Va., Wheeling.—H. W. Fair, Wheeling, has contract for erection of apartment-house; two stories; brick and stone; fire-proof; four apartments of four rooms and

BANK AND OFFICE BUILDINGS

Fla., Daytona. — Merchants' Bank has awarded contract to W. B. Talley, Jackson-ville, Fla., for erection of bank building on South Beach St. (Lately mentioned.)

Ga., Atlanta.—Guarantee Trust & Banking
Co. awarded contract to W. E. Washburn,
Empire Bldg., Atlanta, for proposed alterations; cost \$15,000; new front, one additional
story in rear, and two-story banking-room;
plans by A. Ten Eyek Brown, Forsyth Bldg.,
Atlanta. (See "Machinery Wanted.")

Ga., Douglas.—Union Banking Co. awarded contract to David E. Evans & Co., 11 East Lexington St., Baltimore, Md., for erection of bank and office building recently noted; three stories; 70x100 feet; reinforced concrete; steam heat; electric lighting; cost \$40,000; plans by Bleckley, & Macdonald, At-

Tenn., Chattanooga.-Hamilton Safe De-Tenn., Chattanooga.—Hamilton Safe Deposit Co., T. R. Preston, president, recently noted to have awarded contract to Geo. A. Fuller Company, New York, for erection of building, has also let following contracts: To M. T. Rourk & Co., Knoxville, Tenn., for plumbing; Lookout Steam Heating & Supply Co., Chattanooga, for heating; Brown-Ketcham Iron Works, Indianapolis, Ind., for structural, steal; Torac Cotta Co. New York structural steel; Terra-Cotta Co., New York, for ornamental terra-cotta; structure to be 15 stories; 60x100 feet; cost \$300,000.

Va., Petersburg. – Petersburg Benevolent Mechanics' Association awarded contract at \$108,251 to J. W. Davis, Newport News, Va., for erection of library and office building; seven stories; steel construction.

Va., Richmond.-Richmond Building Corpo Va., Richmond.—Richmond Building Corporation, A. Bierne Blair, president, awarded contract to Virginia Bridge & Iron Co., Roanoke, Va., for 700 tons of structural steel to be used in erection of Virginia Trust Buildestimated cost \$200,000; John T. Wilson Co. of Richmond are general contractors; Duncan Lee of Richmond is architect. (Previously detailed.)

CHURCHES

Ala., Montgomery.-First Church of Christ, Scientists, awarded contract for erection of church at 16 High St.; 56x128 feet; brick veneer; cost \$5000. Address The Reader, First Church of Christ, Scientists.

Ky., Paris.—Methodist Church committee has awarded contract at \$14,977 to A. N. Powell, Winchester, Ky., for rebuilding burned church edifice; plans by S. E. Desjardins, Cincinnati, O.

Mo., Kansas City.—Grand Avenue Method-ist Episcopal Church, Rev. Edwin R. Olm-stead, pastor, awarded contract to James Black Masonry & Contracting Co., Wright Bidg., St. Louis, Mo., for erection of edifice Bidg., St. Louis, Mo., for erection of edifice and office building; 96x115 feet; office build-ing to be 12 stories high; church up to third or fourth story of office building; cost of entire building, \$375,000; plans by John W. McKeckhie, Kansas City. (Contract recently incorrectly noted awarded to James Black and I. T. Cook.)

Va., Hopkins.-Hunting Creek Methodist Va., Hopkins.—Hunting Creek Methodist Protestant Church will expend \$4000 on pro-posed structure; to be completed by Septem-ber 1; plans by Price Bros., Atlantic High-lands, N. J.; frame building; 32x44-foot auditorium; 16x30-foot Sunday-school room; tractor, Parksley Lumber Co., Parksley,

Va., Parksley.—Grace Methodist Protestant Church, H. T. Mason, member of committee, awarded contract to W. W. Keenan, Char-lottesville, Va., for erection of edifice previ-ously described; main auditorium, 45x45 feet; Sunday school room, 32x59 feet; pastor's study, 12x12 feet; brick structure, with concrete foundation and bluestone trimmings; to be completed by December 15; steam heat; electric lighting; cost \$12,000; plans by G. R. Ragan, Salem, Va.

CITY AND COUNTY

Tenn., Memphis — Engine-houses. — City awarded contract to J. E. Hollingsworth, Memphis, for constructing two engine-houses; at \$15,953 for double engine-house at Lucy Ave. and Latham St., and at \$12,888 for single house at Lamar Ave. near Woodward St. (City lately mentioned as receiving bids.)

Tex., Palestine-Fire Station.-City award-4 contract at \$14.955 to John Gaught, Pales. tine, for erection of fire station at Crawford and Palmer Sts.; James F. Brook, Palestine, supervising architect. (Recently mentioned.)

COURTHOUSES

N. C., Greenville.—Pitt County Commissioners, through Milburn, Heister & Co., architects, Home Life Bidg., Washington, D. C., awarded contract at \$74,984 to Central Carolina Construction Co. of Greensboro, N. C., for erection of courthouse and jail previously noted; building to be completed within 10 months. 10 months.

DWELLINGS

Jacksonville.-Herbert B. Race awarded contract for erection of eight-room dwelling recently noted; brick and stucco; steam heating; cost \$7000.

Fla., Wellborn.-R. M. Carver awarded contract to Mr. Walters, Wellborn, to erect two-story 10-room dwelling.

Ga., Atlanta.—Mrs. C. W. Asbury has plans by and awarded contract to G. R. Bond, 404 Peters Bldg., Atlanta, for erection of pro-posed dwelling; eight rooms; two stories; 35x60 feet; frame; hot-air heat; gas and electric lighting; cost \$5000.

Ga., Atlanta.—J. H. Deering awarded contract to G. R. Bond, 404 Peters Bldg., Atlanta, for erection of proposed dwelling; six rooms; one story; 36x60 feet; frame; fire-places; gas and electric lighting; cost \$3000; plans by Cooksey & Maxwell, 815 Forsythe St., Atlanta.

Md., Baltimore. — Allen L. Carter, 3902
North Charles St., awarded contract to J. F.
Carter, Pimlico Bivd., near Gien Ave., Baltimore, for erection of addition to residence;

Md., Baltimore.—Harrison McMains, 315 Dolphin St., awarded contract to John Sheri-dan, 806 North Carrollton Ave., Baltimore, for erection of dwelling; two and a half stories; frame; cost \$6000.

Md., Baltimore.-Hilton Land Co. awarded contract to Henry C. Glantz, 3218 Auchento-roly Ter., Baltimore, for erection of four two-story brick dwellings on 11th St., between Presbury and Grason Sts.; 16x52 feet; cost \$12,000.

Tex., Dallas.-S. G. Lett has plans by awarded contract to C. M. Bialkowski, Dallas, for erection of residence; frame; cost \$5000.

Tex., Waxhachie.—L. E. Fowler awarded contract to H. W. Mabson, Waxahachie for erection of proposed dwelling; 50x60 feet; brick and frame; fireplaces; cost \$6500; plans by E. S. Bage, Waxahachie.

Va., Lynchburg.—Lawrence McWane awarded contract to W. K. Barger, Lynchburg, for erection of residence; two stories and basement; 12 rooms; cost \$8500; plans by McLaughlin, Pettit & Johnson, Lynchburg.

Va., Norfolk.—E. J. Vellines will expend \$3500 to erect dwelling; 12 rooms, cellar and attic; mill construction; heating to cost \$250; lighting to cost \$125; contract recently noted awarded to J. E. Newman, East Rap

pahannock Ave., Norfolk. (See "Machinery Wanted."

Va., Petersburg.-W W. Hines awarded va., retersourg.—w. W. Hines awarded contract to Nicholson & Gilespie, Petersburg, for erection of \$7500 brick residence; plans by M. P. Andrews & Co., Petersburg.

Va., Petersburg.-E. J. Andrews awarded contract to J. T. D'Alton, Petersburg, for \$3600; plans by M. P. Andrews & Co., Peters.

W. Va., Thomas.-Davis Coal & Coke Co. Cumberland, Md., awarded contract to Ne-kola Construction Co., Pittsburg, Pa., for erection of 50 double houses on Thomas Hill, 5) at Coketon Shaft, 50 on Pendleton Run and 100 at Sand Run Shaft.

GOVERNMENT AND STATE

Fla., Fort Barrancas—Guardhouse.—Henry Monk, Pensacola, Fla., has contract to creet addition to guardhouse recently noted; estimated cost \$10,000. (See "Machinery Wanted.")

Tex., Dallas.-State Fair Commis Tex., Daina.—State Fair Commission is proceeding with erection of fair buildings recently noted; 150x250 feet; combined colliseum and auditorium; fireproof, from and steel; heating not decided; lighting plant to cost \$8000; cost of buildings, \$100,000; plans by C. D. Hill & Co., Dallas; contract awarded to W. R. Hatcher, Dallas.

HOTELS

Fla., Kissimmee.—R. B. Savage awarded contract to Frank Bass, Kissimmee, for erection of 50-room cement hotel.

Fla., 8t. Augustine.—Hotel Marion awarded contract to Fred Walton, St. Augustine, for erection of four-story addition and additional story to present structure; electric elevator; tower on northeast corner.

Md., Baltimore.—John Nixon, 312 West Fayette St., awarded contract to J. Elmer Stanfield, 212 North Payson St., Baltimore, for rebuilding Nixon Hotel; 22 feet 9 inches by 57 feet 1 inch; slag roof; steam heat; cost \$18,000. (Recently mentioned.)

Tex., Alvin.-Alvin Hotel Co. awarded co tract to M. C. Bowden, Galvesion, Tex., for erection of two-story hotel recently noted; cost \$15,000; 60x120 feet; brick; lobby, diningcost \$15,000; out 15 feet; brick; hony, diffing-room, kitchen, etc., on first floor; 30 rooms above; fron work, plate glass, sheet-metal work, composition roofing and lighting fix-tures; contract let July 14; structure to be completed in 100 working days; plans by R. D. Steele, Houston, Tex. (See "Stores" and Machinery Wanted.")

Tex., Houston.—Bender Building Co. awarded contract to Fred A. Jones Construction Co., Houston, for crection of hotel; 10 sto-ries; foundation to support 20 stories; 100x 125 feet. (Previously mentioned.)

MISCELLANEOUS STRUCTURES

D. C., Washington — Riding Academy. — Washington Riding Club awarded contract to Arthur Cowsill, 723 15th St. N. W., Wash-ington, for alterations to riding academy ington, for attentions to radius, recently noted; ordinary construction; steam heat; electric lighting; cost \$30,000; plans by G. Oakley Totten, Jr., \$08 17th St., Washington. (See "Machinery Wanted.")

La., Mansfield—Fair Buildings.—De Soto Parish Fair Association awarded contract to Nicholson Construction Co. (address care of architect) for erection of fair buildings renoted: mill construction : lighting: cost \$10,000; plans by Ben Hawkins,

Mansfeld.

Md., Baltimore — Hospital. — Benjamin F.
Bennett Bldg. Co., 123 South Howard St.,
Baltimore, has contract and is preparing to
begin erection of proposed one-story addition
to Johns Hopkins Hospital at Monument
and Wolfe Sts.; building will be of brick;
bluestone trimmings; 33x12 feet; hot-water
heat; cost \$12,000; will be used as pathological laboratory; plans by Archer & Allen,
47-48 Central Savings Bank Bldg., Baltimore.

W. Va. Fiking-Home—Children's Home.

W. Va., Elkins-Home.-Children's Home for West Virginia Humane Society awarded contract to Enterprise Construction Co. of Elkins to erect children's home; main build-ing 86x36 feet, two stories, with L 50x30 feet. one story; basement under entire structure; pressed brick; stone foundation; slate and comoposition roof; gas and electric lighting; hot-water heat; estimated cost \$10,000; plans by Holmboe & Lafferty, Clarksburg, W. Va. (Further facts recently mentioned.)

RAILWAY STATIONS

Mo., St. Louis.—Illinois Traction system awarded contract to Kremer & Voiral, St. Louis, Mo., for erection of express station; two stories: brick: cost about \$45,000.

SCHOOLS

Fla., Key West,-Ruth Hargrove Institute awarded contract to Ferguson & Ward, Key West, for erection of building; roof garden to accommodate 1500 people; cost \$25,000.

Fla., St. Cloud.-Town Council awarded ntract for erection of proposed \$4000 school

Fia., St. Petersburg.—City awarded con-tract to W. C. Henry of St. Petersburg for erection of high school; doric style; 127x89 feet; stone porch supported by four doric columns 27½ feet high; 32 windows each in columns 271½ feet high; 32 windows each in rear and front and 22 windows on each side; round-roofed dome directly above center lighted by 12 windows; red brick construc-tion; 20 rooms, including auditorium 70x40 feet; plans by Bonfoey & Elliott, Tampa, Fla.; cost \$22,035. (Recently mentioned.)

Miss., Haziehurst.-City will expend \$10,000 Miss., Hazlehurst.—City will expend \$10,000 to erect school building; 33x75 feet; three stories; ordinary construction; plans by R. H. Hunt, Chattanooga, Tenn.; contract for erection recently noted awarded to J. F. Barnes, Jackson, Miss., and for heating plant to C, C. Hartwell & Co., New Orleans, La. (See "Machinery Wanted.")

Mo., Joplin.—Board of Education awarded contract at \$6199 to J. R. Thomas, Joplin, for erection of two-room addition to Colum-bia school; cost of installation of plumbing \$1872; plans by Garstang & Read, Joplin.

N. C., Oxford.-Board of Education award-N. C., Oxford.—Board of Education award-ed contract to Fogerman & Turner, Oxford, for erection of 79x116-foot high-school build-ing; cost \$18,300; electric wiring; slate roof; structural-iron roof supporters; plans by Linthicum & Roper, Durham, N. C. (Recently ncorrectly noted. See "Machinery Wanted.")
Okla., Hitchcock.—School District No. 29

Okla., Hitchcock.—School District No. 23 awarded contract to Lisle Denning Construction Co., Oklahoma City, Okla., for erection of proposed school building; two stories; 42x72 feet; fireproof construction; steam heat; cost \$9500; plans by A. A. Crowell,

Tenn., Germantown.—Shelby County School Board awarded contract at \$12,985 to W. W. McGinnis, Memphis, Tenn., for erection of proposed school.

Tex., Austin.—University of Texas is reported to have awarded contract to James A. Stewart & Co. of St. Louis, Mo., for carentry and masonry work on proposed library uilding; plans by Cass Gilbert, 11 East 24th St., New York.

Tex., Spofford. - Spofford District School Trustees awarded contract for erection of school; two stories; frame; cost \$3500.

Tex., Tomball.-City awarded contract \$5250 to J. L. Railey for erection of twostory brick school

Va., Hollins.—Hollins Institute awarded contract to J. F. Barbour & Co., Roanoke, Va., for crection of hospital previously noted; 40x63 feet; three stories; ordinary construction; steam heat; electric lighting; ost \$16,000; plans by Huggins & Bates, Roa

STORES

Ala., Birmingham.—Young & Van Supply Co. awarded contract to H. A. Stockmar, Birmingham, for erection of business build-ing; three stories and basement, with twostory section and one-story wareh forced concrete; plans by H. B. Wheelock,

La., Shreveport.—Hutchinson Bros. have awarded contract to Tom Green, Shreveport, for erection of store; four stories; brick; cost \$57,000.

Md., Baltimore.—Leonard Kresge, 221 West Lexington St., awarded contract to William F. Welsh, 250 West Preston St., Baltimore, for alterations to store at Lexington St. and Park Ave.; cost \$5000.

8. C., Timmonsville.—Hill Bros, awarded contract to B. W. Fubanks for erection of store buildings recently noted; two-story 20x 60-foot structures; cost \$1000 each; ordinary construction with concrete floor; electric

Tex., Alvin.—Steve Jones awarded contract to M. C. Bowden, Galveston, Tex., for erec-tion of business building recently noted; lower floor, three stores; upper floor, 20 addi-tional rooms for Alvin Hotel, adjoining; size 64x78 feet; cost \$8400; plans by R. D. Houston, Tex. (See "Hotels.")

Tex., Houston. — Bering-Cortes Hardware Co. awarded contract to James A. Stewart & Co. of St. Louis, Mo., for erection of store building; reinforced concrete; fireproof; cost \$90,000 to \$100,000; plans by Sanguinette, Staats & A. E. Barnes of Houston. (Previously reported). ously reported.)

Tex., Houston. - James Shapley & So Houston, have contract for erection of proposed Mactee Bldg.; two stories.

, Roanoke.—J. R. Weaver will expend 6 to erect store building; three stories; 25x92 feet; ordinary construction; steam heat; electric lighting; plans by H. M. Mil-ler, Roanoke; contract recently noted award-Barbour & Co., Roanoke

THEATERS

Tenn., Knoxville.—J. F. Rogers has plans y and awarded contract to W. O. Seats, Nashville, Tenn., for erection of theater; 50: 100 feet; 36-foot ceiling; glass brick; green glass brick base at front: white-glass bricks above; two Ionic burnished-copper columns with caps and verdantique bases on either side of lobby; tower 56 feet high over stage; mechanical heating, ventilating and cooling system; awarded contract for brickwork to W. A. Gervin, Knoxville; four prosenium boxes and three mezzanine boxes on either side; cost \$30,000. (Recently mentioned.)

WAREHOUSES

Ark., Little Rock.—George Neimeyer has warded contract to W. A. Stanton, Little lock, for crection of warehouse at foot of rch St.; concrete; 40x90 feet; cost \$10,000.

Va., Richmond.—Standard Paper Manafac-iring Co. awarded contract to J. T. Nuck-is, Richmond, for erection of warehouse; we stories; 89x193 feet; ordinary wood concost \$20,000; plans by Carneal Johnson, Richmond. (Previously mentioned.)

RAILROAD CONSTRUCTION

RAILWAYS

Ala., Birmingham.—The Illinois Central allroad will have charge of the relocation of the Birmingham Belt Line from Tenth to Twenty second Ave., hearly two and one-haif miles. A press report says it is understood that the Vance Contracting Co, has secured the contract at about \$85,000 for the grading through Norwood. A. S. Baldwin is chi-engineer of the Illinois Central at No. Park Row, Chicago, Ill.

Ala., Centerville.—H. E. Reynolds, secretary, and also one of the incorporators and directors, says that the Birmingham, Selma & Pensacola Railway proposes to build a line from Centerville to Selma, is miles, and also from Blocton to Centerville, 15 miles. The route is from Birmingham to Bessemer, Blocker, Centervilla, and Salma, and themse to the Centervilla and Salma, and themse to rente is from brimingman to ressemer, Biochen, Centerville and Selma, and thence to Fensacola. Fla., with a branch to Marion, Ala. An iron bridge over the Cahaba River and several wooden tresties will be required. The incorporators and directors are: President, J. C. Suttle of Vicksburg, Ala.; treas-urer and general manager, A. J. Weaver of Brent, Ala.; secretary, H. E. Reynolds of Centerville, Ala., and J. T. Ellison, also of Centerville

Ala., Demopolis. - A movement is under way to build a railroad from Demopolis to Linden, Ala., and M. P. Hillyer of New York city is reported interested. They contem-plate, it is said, building from Birmingham, Ma., to Scranton, Miss. President A. R. Smith of the Demopolis Business League

Ala., Anniston.—Henry C. Allen of Apnis on, according to a press report, will make a urvey for an extension of the railroad wheel by the Bass Foundry and Machine Works of Rock Run, now operated between that place and Spring Gardens.

Ark., Fort Smith.—The St. Louis, Fort Smith & Dallas Railroad Co, has been char tered at Oklahoma City to build a line 60 miles long in Oklahoma via Arkoma, a new town on the Poteau River, and running from Smith to Wilburton, Okla : Incorporators are M. C. Burke a. Vaugh of Fort Smith, Ark.; R. Willie and R. C. Alexander of Rogers, R. E. Reynolds and W. W. Murray of Arko

Ark., Marianna.-The Marianna & South western Railrond Co., which has built a lin-from Big Creek to Heth, proposes to built an extension from Heth to Marianna, Ark. an extension from Heth to Marianna, Ark., thence to Obery, on the Missouri & North Arkansas Railroad, 35 miles, and later via Pine Bluff to connect with the Rock Island between Fordyce and Hope, Ark. The of-theers are J. T. Robertson, president; H. F. Robeson, vice-president and attorney, both fleers are 3. T. Roberts and attorney, both at Marianna, Ark. W. B. Mann of Marianna and P. C. Allen of Memphis, Tenn., are also prominently interested. W. E. Ayres of Memphis is to make survey.

Ark., Rogers,-The Rogers, Bentonville Ark., Rogers.—The Rogers, Bentonville & Decatur Interurban Rallway Co. is reported to have begun survey at Cave Springs for the proposed line which will connect the three points named in the title. J. D. Houseman and G. G. Sutherland of St. Louis are among

Fla., Pensacola.-Henry McLaughlin is reorted to have let contract to C. W. Merritt Pensacola for grading on the Pensac Mobile & New Orleans Railroad from Loxley, Ala., to Mobile Bay, 10 miles. The same con-tractor had the grading from the Perdido River to Loxley. Mr. McLaughlin is also recrted to have contracted to build a bridge and branch railroad across Perdido Bay to Lillian, Ala., about eight miles, connecting at Millview with the main line.

Ga., Savannah.—The Savannah & South-western Railroad Co., capital \$1,000,000, has seen granted a charter to build a line from Savannah to Fort Gaines, Ga., about miles. It will run through 14 counties. incorporators are F. R. Durden and E. Frank of Savannah, Ga. : W. P. Kicklighter Frank of Savannan, Ga.; W. P. Kicklighter of Bryan county; C. S. Price, N. A. Haggard, W. G. Parnell, G. W. De Loach, D. M. Brad-ley, J. H. Perkins, W. C. Perkins, C. W. Smith, J. V. Kelley, S. T. Ellis, M. A. Smith, P. M. Anderson, all of Tattnall county.

Ga., St. Marys.-L. Johnson, president and general manager of the St. Marys & Kings-land Railroad, is quoted as saying that ar-rangements will soon be made for an extenon from Kingsland to Wayeross, 47 miles Address, St. Marys, Ga.

Ky., Jackson,-The Monday Construction M. C. Monday, president, is reported to the contract for the three-mile exten-of the Lexington & Eastern Railroad and is building considerable concrete work.

Ky., Somerset.-Cecil Williams, secretary that citizens of Somerset have decided to build a railroad via Somerset from Cor-bin to Hopkinsville, Ky. Foreign capital has made a fair proposition, and it is intended to first build from Corbin to Somerset, 25 miles, and thence to the Cumberland River, miles. Survey and right-of-way work will egin immediately.

La., Baton Rouge.—The Illinois Central Railroad, according to a report in trans-portation circles, contemplates building large terminals at Baton Rouge. A. S. Baldwin is chief engineer at Chicago, Ill.

La., Hammond.-The New Orleans, Natalbany & Natchez Railrond, says a dispatch, has completed survey for an extension from Kentwood to Baton Rouge. F. L. Pantali is traffic manager and purchasing agent and O. L. Benway secretary and treasurer at Ham-

La. Lake Arthur.-The Jennings Constru is reported chartered to build the tion Co, is re Lake Arthur, from Lake Arthur to connect with the Frisco system; capital \$500,000. The incor-porators include G. B. Zigler, president; D. Hebert, first vice-president; H. A. Hous-siere, second vice-president; C. D. Andrus, secretary; W. B. Conover, treasurer; E. P. eral manager; B. B. Bliss and G. A

La., Mansfield.—The J. L. Logan Lui Co., according to a dispatch, will build standard-gauge logging railroad from Pe can into pine timber lands, altogether about 15 miles

La., New Orleans.—Rumored that work will soon be resumed to complete the large terminals at Chalmette, near New Orleans, to be used by the St. Louis & San Francisco Railroad. F. G. Jonah is chief engineer or construction at St. Louis, Mo.

Miss., Cude.-A dispatch says that pre survey will be made immediately by Henry M. Thayer for the proposed rallroad to connect Tutwiler, Cude and Yazoo City. W. J. Cude is president, Arthur B. Ransom vice-president, Luke Lea treasurer, and J. F.

Miss., Gulfport .- An officer of the Gulfport & Mississippi Coast Traction Co. denies the report that it is contemplated to build an extension to Henderson's Point.

Miss., Jackson.—With reference to the re ort that the New Orleans Great Northern Railroad would build an extension from Jackson, Miss., to near Memphis, Tenn., a prominent officer says that it has no plans for extending north of Jackson at this time.

Mo., Jefferson City.—An officer of the Missouri Pacific Railway is quoted as saying that contract has been let to T. B. Jones & Co. for five miles of second track between Jefferson City and Coal Junction, including reconstruction of the terminal at Jefferson City.

Railway, it is reported, will begin work immediately upon a connecting railroad nearly three miles long from the main line near Chitwood to the Union Depot property. The work will include three trestles. Extensive yards are also contemplated. S. B. Fisher is chief engineer at St. Louis, Mo.

Mo., St. Joseph.—The St. Joseph & Savan-miles of grading are completed out of San nah Interurban Railway Co. will build 10. Benito on the San Benito & Rio Grandy

miles of line from St. Joseph to Savannah. The J. H. Flick Construction Co. of Chicago is the contractor and Charles W. Campbell is chief engineer and John H. Van Brunt sident at St. Joseph, Mo.

Mo., St. Louis.—D. C. Nevin, president of the St. Louis-Kansas City Electric Railway o., Commerce Bldg., Kansas City, Mo., is the St. Louis-Kans reported as saying in a cablegram that bends have been sold in Paris. The sale is as been made for 75 per cent, of the route. The line will be via Columbia, Marshall. Higginsville, Odessa and other points. will be about 250 miles long.

N. C., Statesville, - R. L. Greenlee Marion, N. C., is reported to have begun a permanent survey for the proposed States-ville Air Line Railroad from Statesville to Mt. Airy, N. C.

of the Arbuckle & Western Railroad Co. that the bonds are arranged for to build the line as soon as the rights of way are in legal form. The necessary rights are assured.

Okla., Chickasha.—The Oklahoma Central Rallway, according to a report quoting an officer, will build its own terminals at Chick-asha. F. C. Hand is chief engineer at Pur cell Okla

Okla., Fairview.-The Fairview & Oklahoma City Railway Co., capital \$100,000, has chartered to build a line from Fairvie Rusk, 45 miles. The incorporators are O. Skyder of Oklahoma City, president; H. A. Noah, secretary; M. M. Fulkerson, treasurer, both of Alva; W. D. Bowling, H. A. Bower, H. Clay Willis, all of Fairview, vice-presidents; W. B. Noble, Alva, and S. B. Moore, Oklahoma City.

Okla., Texhoma.-The Shumway Constr. tion Co, of New York, according to a dis-patch, will begin work immediately on the Lenver & Gulf Railroad, which is to be constructed from Texhoma to Lamar, Col present 55 miles are to be built from Lamar outhward.

S. C., Aiken,-James U. Jackson of Augusta Ga., according to a report from Columbia, says that plans are under way to build the proposed extension of the Augusta & Alken Railway from Alken to Columbia, about 50

S. C., Georgetown.-The Waccamaw Trans portation Co., recently reported chartered by A. A. Springs and others, is for a steamboat line, and not a railroad.

Tenn., Athens.—J. B. Wright, president of the Athens & Tellico Railway, is reported as saying that arrangements have been made to build an extension of two miles to the center of this town. A dispatch also says that the McDowell Construction Co. has a contract for about \$59,000 for filling in, trestles and refor about \$50,000 enstruction. Headquarters are at Athens.

Tenn., Jackson.-An officer of the Nashville, Chattanooga & St. Louis Railway writes that there is no truth in the statement that the company will improve its line between Jack-son, Tenn., and Paducah, Ky.

Tenn., Memphis,-The Tenn o., it is reported, has completed preliminary surveys for its proposed line from Memphis to Jackson, Tenn., about 75 miles, and is now securing rights of way via Bartlett and Brownsville. W. K. Burton is president, securing rights of way via Bartlett and Brownsville, W. K. Burton is president. Hugh Spencer secretary and George M. Boshgeneral manager and chief engine

Tex., Amarillo.-The Rock Island, Texico. Farwell & Gulf Railway Co. is reported char-tered in New Mexico to build a line in con-nection with the Texas roads of the Rock J. B. Berry is chief engineer Island systen it Chicago, Ill.

Tenn. Knoxville -- An officer confirms the report that the Knoxville, Sevierville & East ern Railway will build an extension south east 15 miles into timber. The work will probably be done by the company's forces; if not, contract may be let within 60 days.

Tex., Crosbyton. — The Crosbyton-South Plains Railroad Co. will build 40 miles of line from Lubbock to Crosbyton. W. H. Den-ison of Lubbock, Tex., has been awarded the contract for grading and tracklaying. P. C. Coonley is president; J. M. Bassett, vice president and general manager; R. M. Bas-sett, treasurer, and John A. Knox, chief engineer at Crosbyton, Tex.

Tex., Longview .- An officer of the Gulf, Colorado & Santa Fe Railway says that no surveys are being made nor are any contemplated soon for an extension north of Long-view. This denies recent press reports re-lating to an extension to the Cass county

Tex., San Benito.-A report says that

Railroad, and the culverts thereon have also been constructed. J. W. Davis, contractor, is continuing grading. S. A. Robertson of S. Benito is promoting the plan.

Tex., Stamford,-A dispatch says that P F. Burns, engineer, will have charge of sur-vey of the Stamford & Eastern Railway, which will begin immediately from Stamford eastward to coal fields.

Tex., Wichita Falls.-The Texas Construction Co., it is reported, has been given con-tract to erect a union terminal for \$87,000, J. A. Kemp and Frank Kell of the Wichita Falls & Northwestern Railway are interested.

Fredericksburg.-A dispatch says that the Richmond & Chesapeake Bay Railway Co. of Richmond has made a survey between Ashland and Fredericksburg for its proposed extension. Between Fredericksburg and Washington, D. C., one line was run via Manassis and Fairfax Court House and the other parallel to the Richmo burg & Potomac Railroad.

Va., Harrisonburg.—It is again rumored that the Chesapeake Western Railway will build an extension of about 40 miles to Decrfield, Va. W. E. D. Stokes is president and general manager at 73d St. and Broadway,

Va., Keokee. - Reported that the Calvin Pardee Company of Philadelphia will build a railroad about three miles from Sigma, on the Black Mountain Railway, to Little Black Mountain, grading to begin about Augu

Va., Norfolk.-Permit has been requested to begin construction of the proposed union station to be occupied by the Norfolk & Weststation to be occupied by the Norfolk & West-ern, the Norfolk & Southern and the Vir-ginian railways. L. E. Johnson of Roanoke, Va., is president of the Norfolk Terminal Co. H. Fernstrom, chief engineer of the Vir-ginian Railway at Norfolk, Va., may also be able to give information.

W. Va., Beckley.-The Virginian Railway. w. va., Beckley.—The Virginian Railway, according to a press dispatch, has issued bonds to build a branch from Harper via Beckley and Mt. Hope to Paintsville. II. Fernstrom is chief engineer at Norfolk, Va.

W. Va., Charleston.-The Mingo Railway Co. of Charleston is chartered to build a line Co. of Charleston is chartered to build a line from Lenore, on Pigeon Creek, on the Tug Fork of the Big Sandy River, to the mouth of Gilbert's Creek, on the Guyandotte River; capital \$50,000. The Incorporators are Simon P. Richmond, V. L. Black, L. G. Summerfield. rus W. McDonald and George S. Couch r., all of Charleston, W. Va.

W. Va., Fairmont.—An officer of the Little Kanawha Syndicate says that it is contem-plated to build the State Line & Southern Railroad, 31 miles long, from Rivesville, Va., to the Pennsylvania State boundary, in the near future.

W. Va., Huntington.—The Cincinnati & Pittsburg Electric Railway Co. has been in-corporated under Delaware laws with \$1,000,-000 capital to build a line from Cincinnati. or, to Pittsburg, Pa. The incorporators, who are all residents of Huntington, W. Va., are A. E. Cox, F. S. Kanole, A. W. Werniger, C. P. Sauborn and C. R. Wyatt.

W. Va., Romney.-Ira V. Cowgill and R. P. Monroe, according to a dispatch, have plied for an electric-railway franchis Hampshire county over the county road and Northwestern turnpike from Romney, via Augusta, Pleasant Dale, Hanging Rock and Capon Bridge, to the Virginia boundary line on the way to Winchester, Va., 35 or 46 miles distant.

W. Va., Wheeling.—The Pittsburg, Stet ville & Wheeling Street Railway Co. is re-ported chartered in Pennsylvania to build an electric railway connecting the three points named. A preliminary line four miles long is to be built between Dormont and Bridge ville; capital \$40,000. The address of the in-corporators is W. E. Hildebrand, Oliver Bidg., Pittsburg, Pa., president; John F. Klein, Carnegie, Pa.; C. W. Behney, Cecil, Pa.

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STREET RAILWAYS

Tex., Dallas,—George W. Works and asso-lates have applied to the City Commission-ers for a street-railway franchise to build a line in the northeastern part of the city.

Steel Plate Construction.

ment No. 19 to its general book views of modern blast furnaces which it has william B. Pollock Company, Youngstown, O.
This company manufactures steel-plate con-struction of blast furnaces, steel works, etc. Berg improved cinder cars, metal mixers laddes, etc., and the supplement referred to presents a number of views of new stoves which the company has recently erected for the New Jersey Zinc Co. at Palmerton, Pa

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SUPPLIES WANTED

Manufacturers and others in need of machinery or supplies of any kind are requested to consult our advertising columns, and if they cannot find just what they wish, if they will send us particulars as to the kind of machinery or supplies needed we will make their wants known free of cost, and in this way secure the attention of manufacturers and dealers throughout the country. The Manufacturers' Record has received during the week the following particulars as to machinery and supplies wanted.

Belting and Shafting.—Fairview Cement Co., Box 447, Fairview, Okla., wants belting and shafting.

Blackboards. — E. M. Cook, Hazlehurst, Miss., wants prices on blackboards.

Boiler.—Huettel Coal & Coke Co., E. H. Guld, president, Norton, Va., wants prices (delivered) on 150-horse-power tubular boiler to be used in connection with 75-kilowatt or 100-kilowatt generator.

Boiler.-See "Locomotive"

Boiler.-See "Mining Machinery."

Boiler. — Fairview Cement Co., Box 447, Fairview, Okla., wants 200-horse-power com and boiler

Boilers. — John G. Duncan Company, 308 West Jackson Ave., Knoxville, Tenn., wants dealers' and consumers' or users' prices on 125 and 150-horse-power high-pressure returntubular bollers with fixtures, complete; sec-ond-hand; immediate shipment; give cost delivered Knoxville or lowest freight rate; also weight.

Boilers .- W. A. Wickliffe, Greenville, Ky.,

wants prices on boilers.

Boilers and Condensers.—Bids will be re-Boliers and Condensers.—Bids will be re-ceived until August 15 by Board of Public Works, Key West, Fla., for furnishing two standard Scotch stationary boliers and one condenser, delivered on dock at Key West; specifications furnished on request. Address William R. Porter, chairman.

Bridge Construction.-Palm Beach County Gridge Construction.—Paim Beach County Commissioners, W. H. DaCamara, chalrman, West Palm Beach, Fla., will open bids July 28 for constructing bridge across canal at Delray, Fla., according to plans and specific actions on file in office of clerk of Circuit Court, Fred E. Fenno; each bid to be accom-panied by certified check for \$200.

Bridge Construction.-B. A. Fuson, Judge Bell County Court, Pineville, Ky., will open bids July 25 for flooring and repairing wagou bridge across Cumberland River at foot of Pine St.; bids to be for work complete, in-cluding material, according to specifications on file with County Judge.

Bridge Construction.-F. L. Portlock, road engineer for Norfolk county, 240 Monticello Arcade, Norfolk, Va., invites plans, specifi-cations and bids for construction of drive bridge over branch of Tanners Creek, on line of Reservoir Ave. ext.; bridge to be 315 feet long and 18 feet wide; also bids are invited for removing 2000 cubic yards of earth for approaches to bridge and fills on roadbed. For further information address Mr. Portlock.

Bronze.-See "Building Materials."

Building Materials, etc.—M. C. Bowden, contractor, Galveston, Tex., will purchase hon work, plate glass, sheet-metal work, composition roofing, skylights and lighting factures for hotel and store buildings at Alvin, Tex.

Building Materials.—A. Ten Eyck Brown, Fersyth Bidg., Atlanta, Ga., wants prices on marble, bronze, ornamental plaster and orna-

Building Materials .- L. B. Turner, Oxford. N. C., wants prices on lime, cement, struc-tural iron and steel, gypsum plaster, nails, slate, brick, lumber, wood columns and acquabar.

Building Materials .- W. A. Wickliffe, Greenville, Ky., wants prices on building mate-

Bulldozers. - Saino Fire Door & Shutter Co., W. F. Dunbar, secretary-treasurer, Ten nessee Trust Bldg., Memphis, Tenn., wants catalogues and prices on bulldozers.

Cannery.—Cuba Canning Factory, L. Poole, president, Cuba, Ala., wants equipment for canning; capacity, 10,000 to 12,000 cans per 10

Canal Construction.-Bids will be received

MACHINERY, PROPOSALS AND July 26 at office of County Court Clerk of Mississippi county, Osceola, Ark., by Willis E. Ayres, chief engineer, for construction of 75 miles of drainage canals, about 3,170,000 cubic yards; certified check \$3000; plans, pro-Court Clerk at Osceola and of Willis E. Ayres, consulting and constructing engineer, Randolph Bidg. Memphis, Tenn.; J. T. Coston, attorney, Osceola.

Clay.—Metropolitan Buyers, T. C. Raine, manager, Flatiron Bidg., New York, want samples and prices per gross on Mexican clay for making cigar moisteners; clay for

Coffee-roasting Outfit.-William H. Fo Gadsden, Ala., wants to correspond relative to coffee-roasting outfit.

Copper Ingots, etc.-D. Blumann, Postga 6. Vienna, Austria, wants to correspond rela-tive to representing American rolling mills and wholesalers offering copper ingots, blocks, cakes, wire bars, etc.; wants to rep-resent for sales in Germany and Austria-Hungary or Germany only.

Creamery Machinery. - Alex. B. Murray, Petersburg, Va., wants creamery machinery.

Cotton-waste Machinery.—L. L. Wagnon, care of Union Grocery Co., Main and Bachelor Sts., Union, S. C., wants information on cotton-waste manufacture and necessary machinery.

Derrick Irons. — Henry Monk, Pensacola, Fla., wants derrick irons.

Desks.—See "School Furniture."

Dumbwaiter.—Binswanger & Co., Richmond, a., wants prices on dumbwaiter.

Electrical Machinery. - See "Mining Ma

Electrical Machinery.—Sherman Steam Marble and Granite Works, 259 West Lamar St., Sherman, Tex., wants following new or second-hand 220-volt direct-current motors: One ½ to 1 horse-power, one 5 horse-power, one about 7½ horse-power; wants controllers with two larger motors.

Elevators.-Binswanger & Co., Richmond, Va., wants prices on elevators.

Elevator.—Thos. H. Pitt, Atlanta Bank Bldg., Atlanta, Ga., wants prices on freight elevator for automobiles; 8x18 feet; for three-story building.

Engine.-See "Water-works."

Engine. - Fairview Cement Co., Box 447, airview, Okla., wants 140-horse-power Corliss engine.

Engines.—J. P. Clevenger, Clevenger, Tex., wants two engines; one 12-inch by 24-inch, side crank, for heavy use, to drive sawmill; one 12-inch by 18-inch, for planer; both high speed; no boliers. (See "Sawmill.")

Engine.—Huettel Coal & Coke Co., E. II. Ould, president, Norton, Va., wants prices (delivered) on 14x14 or 16x16 engine.

Engines.-W. A. Wickliffe, Greenville, Ky., wants prices on engines.

Farm Implements.-See "Peanut Machin-

Feed-grinding Machinery.—Foley Fertilizer Co., Foley, Ala., wants feed-grinding machin-ery. (See "Fertilizer Machinery, etc.")

Fertilizer Machinery, etc.—Foley Fertilizer Co., A. L. James, manager, Foley, Ala., will want fertilizer-mixing and feed-grinding ma-chinery, with gasoline engine, within next 30 days.

Furniture.-See "Hotel Furnishings.

Flooring. - John Stone, Savannah, Ga., wants prices on parquetry flooring.

Flour Mill.—Dr. B. O. Edwards, president Landis Milling Co., Landis, N. C., will sood be ready to receive bids on machinery for roller flour mill.

Furnishings (City Buildings).—City of Miami, Fla., in market for furnishings for new city building, courthouse, council cham-ber, juli and office; A. H. Adams, City Clerk.

Gasoline Engine.—See "Fertilizer Machin-

Glass-manufacturing Materials. — Bartlesville Bottle & Glass Co., Bartlesville, Okla., Jas. W. Lyńch, 510 Shawnee Avc., secretary, wants ground limestone, glass cullet, soda ash, sand and coloring materials.

Grading.-Bob Parman, City Clerk, Oklatrading.—Bob Parman, City Cers, Osachoma City, Okla., will receive bids until July 25 for grading certain streets; plans and specifications on file at office of City Clerk; bids must be accompanied by certified check for 3 per cent. of amount bid.

Grading .- Board of Mayor and Aldermen. Grading.—Board of Mayor and Aldermen, Moss Point, Miss., will receive bids until Au-gust 1 for grading five miles (approximately) of city streets; certified check for 5 per cent. amount of bid, payable (without reserve) to city of Moss Point; plans and specifications at Mayor's office; C. M. Fairley, City Clerk. Heating Plant.—J. E. Lee, Box 234, Dallas, ex., wants bids on hot-water heating plant or two-story-and-basement residence, 47x39

Heating Plant. - H. M. Pers mond, W. Va., wants prices on heating plant for 42x90 foot lodge building.

Heating Plant.—J. E. Newman, East Rap-ahannock Ave., Norfolk, Va., wants prices n heating plant.

Heating Plant.-Proposals will be received board of trustees of University of South arolina at office of Governor, Columbia, S., until August 31 for first instalment of ntral heating plant, consisting of power central heating plant, consisting of power-house, 125-horse-power H. R. T. boiler, power-house equipment, steam mains and condult. Plans and specifications may be had on appli-cation to architects, Wilson & Sompayrae, 1302 Main 8t., Columbia, on deposit of \$10.

Heating Plants.—A. J. Beverett, Mayor, Midland City, Ala., wants information and prices on hot-air or steam-heating plants for ol building.

Holst.—V. H. Sibille, Sunset, La., wants cond-hand 29-horse-power double-cylinder cuble-drum steam holst.

Hoisting Engine.—Henry Monk, Pensacola, Fla., will probably want double-cylinder double-drum hoisting engine.

Hotel Furnishings.—Rockyille Hotel Cor-poration, J. M. Wolford, secretary, 615 14th St. N. W., Washington, D. C., wants furni-ture and furnishings for 39-room hotel.

Ice Machinery.—Wood Grocery Co., Selma, S. C., wants to correspond with manufactures of ice machinery.

Iron and Steel.-Henry Monk, Pensacola. wants 50 tons iron and steel.

Juli Construction.—Henry Monk, Pensa-cola, Fla., wants blds from Juli and cell con-structors for extension of 16-foot cage for gnardhou

Kiln.-Fairview Cement Co., Box 447, Fairview, Okla., wants rotary kilu; 100 tons ca-pacity; 1500 degrees of heat; for gypsum rock; to remove all moisture from rock.

Laundry Machinery, etc.—J. C. White, Sylania, Ga., wants information on steam laundry and prices on machinery.

Levee Work—Mississippi River Commission, U. 8. Engineer Office, Room 29, Custom-house, Memphis, Tenn.—Proposals for about 226,000 cubic yards of levee work in Upper Yazoo levee district will be received until August 1. Information on application. M. L. Walker, Major, Engineers L. Walker, Major, Engineers,

Levee Earthwork.—United States Engineer's Office, 3238 St. Charles Ave., New Orleans, La. Sealed proposals for constructing about 257,000 cubic yards of carthwork in Lower Tensas Levee District will be received until August 15, and then publicly opened; information on application; H. Burgess, Major, Engineers Engineers.

Lighting Plant.—E. J. & W. K. Dunne, Sumter, S. C., want prices on lighting plant. Limestone.—See "Glass-manufacturing Materials.

Lighting Fixtures. - See "Building Mate rials, etc.

Locomotive.-Henry Monk, Pensacola, Fla., wants prices on 29 or 25-horse-power locomo-tive, new or second-hand boiler.

Lumber.-Harry A. Loche, 547 Drexel Bldg. Philadelphia, Pa., wants quotations on about five carloads of lumber—spruce, white pin-hemlock and oak; delivery daily for three t five years; specifications and other details furnished on application.

Lumber.-See "Building Materials."

Machine Tools. - Chas. A. Ryerson, 105 Howard St., Ridgedale, Tenn., wants to buy eight-foot cornice brake, 48-inch rolls, hand drill press, 40-inch square shear, etc.,

Marble.-See "Building Materials."

Marble,—See "Building Materials."

Masonry Work.—Scaled proposals will be received at office of Board of Sinking Fund Commissioners, Frankfort, Ky., up to August 2 for construction of masonry approach to new State Capitol; branches of work included are excavation, concrete (not reinforced), brick and concrete walks, cut stone and storm water drainage. Plans and specifications may be had by applying to architects, Frank M. Andrews & Co., 22d floor Metropolitan Tower, New York.

Mining Machinery —W.A. Wickliffe, Green.

Mining Machinery.—W. A. Wickliffe, Green-ville, Ky., wants prices on mining machinery.

Mining Machinery.—J. M. Short, manager, R. F. D. 3. Galena, Kans., will open bids after September 1 on boller, crushing machinery and electrical machinery for plant of Sitting Bull Lead & Zine Mining Co., Joplin, Mo.

Metal Celling.—John Stone, Savannah, Ga., wants prices on steel celling.

Metal Ceiling.—E. J. & W. K. Dunne, Sum-er, S. C., want prices on metal ceiling.

Office Supplies.—See "Furnishings."

Ornamental Iron.—John Stone, Savannah, a., wants prices on ornamental iron.

Overalls Machinery, etc.—L. L. Wagnon, are of Union Grocery Co., Main and Bache-or Sts., Union, S. C., wants information on stablishment and operation of overalls factory; also prices on machinery

Painting.—J. E. Newman, East Rappahan-nock Ave., Norfolk, Va., wants prices on nainting.

Paving.-Monongalia County Road Commis Paving.—Monongalia County Road Commis-sioners, Morgantown, W. Va., will let con-tract in about 33 days for construction of 2000 linear feet of brick pavement, 26 feet wide, with concrete curb and sidewalks and necessary sewers; Robert D. Hennen, road engineer, Morgantown.

Paving.—Palm Beach County Commissioners, W. H. Da Camara, chairman, West Palm Beach, Fla., will open bids July 28 for constructing cement walk around east and north sides of courthouse and from sidewalk to steps on said sides; plans and specifications on file in office of clerk of Circuit Court, Fred E. Fenno.

Pred E. Fenno.

Paving.—Bids, to be filed with clerk of Board of Mayor and Aldermen, Leland, Miss., will be received until August 2 for construction of concrete sidewalks; plans and specifications and instructions to bidders on file with clerk; R. W. Garrison, Mayor.

Paving Blocks.—Baltimore (Md.) Board of Awards, care J. Sewell Thomas, City Regis-ter, City Hall, will open bids July 27 for long leaf yellow pine paving blocks delivered f. o. b. Baltimore; specifications and blank proposal forms can be had on application at office of B. T. Fendall, City Engineer.

office of B. T. Fendall, City Engineer.

Paving—Office of Constructing Quartermaster, Lieut. Edwin F, Barlow, Fort Morgan.—
Scaled proposals in triplicate will be received until August 5 for construction of brick-paved road and cement walks around barracks, mess hall and lavatory; plans, specifications, blank proposals and information furnished on application; a deposit of \$5 required for drawings and specifications; deposit returned to bidder on return of drawings. Plans and specifications may be seen ings. Plans and specifications may be seen at this office. United States reserves usual

Paving.—J. II. Hicks, Mayor, Clarksville, Ga., will receive idds until August 5 for ap-proximately 6000 linear feet of curb and gutproximately 6000 linear feet of curb and gut-ter; 8000 square yards macadam paving, and 1900 square yards brick or concrete sidewalks; plans and specifications on file at office of Mayor; general information regarding work may be obtained upon application to eugl-neer, H. S. Jaudon, P. O. Box No. 111, Gaines-ville, Ga.; certified check \$500 must accom-pany each bid.

Paving.—Mayor and Board of Aldermen, Guifport, Miss., will receive bids until Au-gust 2 on construction of approximately 13,960 square yards cement sidewalks; speci-fications, etc., obtainable from Hobart D. fications, etc., obtain Shaw, City Engineer,

Piling, - Henry Monk, Pensacola, Fla. ants 50 tons east-fron pilling.

Peanut Machinery.—Jn. Brutt Davy, Gov-ernment agrostologist and botanist, Box 434, Pretoria, British South Africa, wants cata-logues of peanut machinery for harvesting, threshing, winnowing, shelling and grading.

Pump.—See "Water-works."

Pump.—See "Water-works."

Pump.—Department of Justice, Office of Superintendent of Prisons, Washington, D. C.—

Proposals will be received until July 29 for furnishing and delivering at United States penitentiary, Atlanta Ga., boiler-feed pump, in accordance with specifications, copies of which, together with further information, may be had upon application at above office. R. V. LaDow, superintendent of prisons, Washington, D. C.

Pump.—Hinton Water, Light & Supely Co.

Pump.—Hinton Water, Light & Supply Co., Hinton, W., Va., wants steam-driven pump for water-works; operating conditions as fellows: Steam pressure, 100 pounds; water pressure from reservoir, 125 to 150 pounds; distance from pumping station to reservoir, 1800 feet; diameter of pipe from pumping reservoir, 10 inches; distance from pumping station to intake, 400 feet; diameter of su-tion line, 8 inches; lift from intake to pump, about 12 feet; required capacity of pump, 60, 900 gallons per hour.

Pump.—Henry Monk, Pensacola, Fla., wants rice on duplex double-acting pump, 8x8x6.

Pumps.—W. A. Wickliffe, Greenville, Ky., ants prices on pumps.

Rails.-W. A. Wickliffe, Greenville, Ky., ants prices on steel rails.

Ralls. — J. S. Schofield's Sons Company, Macon, Ga., wants 2000 to 5900 feet 12-pound T rail; delivered Macon.

Road Construction.-Bids will be received Road Construction,—Bids will be received at Clerk's office, Wythevilie, Va., until August 2 for construction of 3½ miles of macadam road from end of present contract east of Lynchburg turnpike from Wytheville; plans and specifications on file in office of Clerk, Wytheville, and of P. St. J. Wilson, State Highway Commissioner, Richmond, Va.; specifications furnished on application to office of State Highway Commissioner; certified check 1550; engineer will be at certified check, \$250; engineer will be at Wytheville on July 26 to give information to

Road Construction.—D. M. Miles, County Supervisor, and D. P. L. Martin, Commis-sioner, Spartanburg, S. C., will award fol-lowing road contracts on July 27: Two miles road from Choice Place toward Boiling Springs, two miles from city limits along Howard Gap Rd., and two miles on New Cut Rd. leading toward County Farm from Howard Gan Rd.: roads are to be 30 feet wide ns will be fully explained on day of letting.

Road Construction .- Constructing Quarter Fort Howard, Md., will receive until August 15 for constructing macadam roads, macadam resurfacing roads, concrete walks and cross-walks; deposit of \$5 required to secure plans; information on application.

Road Construction.-Morgan County Com-nissioners, Decatur, Ala., will receive bids missioners, Decatur, Ala., will receive bids until August 9 for grading, draining and macadamizing Decatur-Danville Rd., 5½ manuting Decatur-Panville Rd., 5½ s; grading, draining and macadamizing ville Rd., 1½ miles; grading, draining macadamizing Lacey Springs Rd., 3 s; grading and draining county road 2, 45 miles; specifications on file at office County Engineer, Box 173, New Decatur,

struction.-State Roads Commission, John M. Tucker, chairman, Union Trust Bidg., Baltimore, Md., will receive bids until July 27 for construction of three miles of stone macadam road in Cecil county between Elkton and Singerly; bids to be made on blank form contained in book of specificablank tions furnished by commission upon applica-tion and payment of \$2 for each section; blueprints furnished at rate of 25 cents for each half-mile section; bids to be accompanied by certified check for \$500.

Road Machinery.-City of Wiggins, Miss. will need machinery for constructing s

Roller Partition.-Hinton Booth, wants prices on roller partition for om; space about 12 feet

Sand. - See "Glass-manufacturing Mate-

Safe, etc.-Missouri Miners' Casualty Co Joplin, Mo., wants prices on safe, vault and other bank fixtures

Sawmill.-J. P. Clevenger, Clevenger, Tex will open bids within few days for sawmill, complete, including 8-inch gun and steam nigger, edgers, trimmers, automatic saws, two planer machines, resaw, bending and balancing machines, blowers, etc.; also two (See "Engines.")

School Furniture.-School Board, Lawrence Royster, M.D., chairman, Norfolk, I receive proposals until July 27 on lowing furniture for new school, to be deliv lowing furniture for new school, to be delivered by September 15; (1) 1000 seats or chairs for auditorium; 30 inches space allowed for seats; bidders to submit plans for seating, also samples. (2) About 1000 single non-adjustable table desks for classrooms; samples required. (3) About 30 single typewriter desks; photograph accepted. (4) About 40 leakhayengs, desks, photograph. bookkeepers' desks; photograph accepted.
(5) About 30 desks for teachers; photograph accepted. Proposals for Nos. 1 and 2 will clude placing in positon in auditorium classrooms; Nos. 3, 4 and 5 to be f. o. d 2 will in Norfolk: committee will meet at 9 A. M. at offices of School Board, corner Granby St. and City Hall Ave., where furniture may be sent; birch-wood furniture preferred; other wood may be accepted.

School Furniture.-E. M. Cook, Hazlehurst, Miss., wants prices on school furniture.

Seating.-See "School Furniture.

Seating .- See "Theater Furnishings, etc." Sewers.—See "Paving.

Sewer Construction .- W. F. Divine, City Sewer Construction.—W. F. Divine, City Clerk, St. Petersburg, Fla., will receive bids antil August 11 for laying 1890 linear feet of 16-inch cast-iron flange outlet sewer pipe into Tampa Bay: bids will also be received for laying and furnishing all material except pipe, which city will furnish, f. o. b. St. Petersburg; profile and specifications can be had at office of M. W. Spencer, City Engineer.

Shafting .- See "Belting and Shafting." Shoemaking Machinery, etc.—Joseph Spiero, 17 Battery Pl., New York, wants prices on

shoemaker's specialties, including small ma chines, tools, shoe lasts of wood and alumium: for importation to Germany; wants

Skylights.—E. J. & W. K. Dunne, Sumter, S. C., want prices on ventilating skylights. Skylights.—See "Building Materials, etc."

Slateworking Machinery.—J. H. Beckley. Ionroe, N. C., wants machinery, including saw, for working slate rock.

Stable Fittings and Equipment. -'owsill, Hibbs Bldg., 723 15th St. Washington, D. C., wants 140 fron stall par tition guards; 28 iron stall door guards; corner-feed troughs; considerable misconeous stable fittings and equipment.

Steel.-See "Iron and Steel."

Stamped S et-metal Products.-Southern States Steel to, 1411 Practorian Bidg., Dal-las, Tex., wants to correspond with manufac-turers of stamped sheet-metal articles.

Stamped-metal Novelties.—Leon C. Steele 114 Granby St., Norfolk, Va., wants addre of manufacturers of stamped-metal novelties.

Steamboat.-J. I. Hazard, Georgetown, S. wants propeller steamboat; about 90 to 100 feet length over all; drawing not over five feet of water loaded; must be fitted for saloon cabin passenger service on upper deck, freight ou main deck, and able to make per hour; give specifi

Steel Bars.-E. Parke Lindsay, 607 Middle St., Portsmouth, Va., wants addresses of manufacturers of or dealers in galvanized steel bars for protecting concrete curbing.

Stone. - Blackshear Manufacturing Blackshear, Ga., wants prices on crushed stone for concrete.

Store Fixtures .- E. J. & W. K. Dunne, Sum ter, S. C., want prices on drug-store fixtures Structural Steel and Iron.-See "Building

Structural Iron. — Arthur Cowslil, Hibbs Bldg., 723 15th St. N. W., Washington, D. C., wants light structural iron work.

Tan Bark.—Arthur Cowsill, Hibbs Bldg.. 723 15th St. N. W., Washington, D. C., wants four cars tan bark for ring floor.

Theater Furnishings, etc.-A. Ten Eye Barown, Forsyth Bldg., Atlanta, Ga., wants proposals on opera chairs, scenery decorations, etc., for proposed \$35,000 vaudeville the ater at Chattanooga, Tenn.

Timber Land.—M. P. Bonifant, Powhatan, Va., wants large tract of fine quality hard-wood or pine timber.

-W. A. Wickliffe, Greenville, Ky., wants prices on tipples for coal mine

Valve Machinery.—Bids will be received at office of General Purchasing Officer, Isthmian Canal Commission, Washington, D. C., until September 16 for furnishing and erecting ma-chinery to operate Stoney Gate valves for controlling main culverts and machinery to operate cylindrical valves for controlling lat eral culverts of Upper Lock at Gatun and Pedro Miguel Lock. Blanks and general in-formation relating to circular No. 596 may be btained at above office or office of assistant ourchasing agents, 24 State St., New York purchasing agents, 24 state St., New 1 55 National Realty Bldg., New Orleans; North Point St., San Francisco, Cal.; from U. S. Engineer office in following ci Seattle, Wash.; Los Angeles, Cal.; Balti-more, Philadelphia, Pittsburg, Boston, Buf-falo, Cleveland, Cincinnati, St. Paul, Detroit, Milwaukee, Chicago, St. Louis, Chattanooga, Louisyille, Mobile and Galveston; Commercial Club, Kansas City; Chamber of Commerce, Quincy, III., and Chamber of Commerce and Board of Trade, Tacoma, Wash.; F. C. Boggs, Captain, Corps of Engineers, U. S. A., General Purchasing Officer.

Vault Door, etc.-E. J. & W. K. Dunne want prices on vault de

Water Meters and Steel Billets.—Bids will e received at office of General Purchasing officer, Isthmian Canal Commission, Washington, D. C., until August 15 for furnishing water meters and steel billets, included in annual estimate for period ending June 39, 1911. Blank and general information re-lating to circular No. 597 may be obtained at above office or offices of assistant purchasing agents, 24 State St., New York; 55 National Realty Bidg., New Orleans; 1086 North Point San Francisco, Cal.; also from U Engineer office in following cities: Seattle Mash.: Los Angeles, Cal.; Baltimore, Phila delphia, Pittsburg, Boston, Buffalo, Cleve land, Cincianati, St. Paul, Detroit, Milwau kee, Chicago, St. Louis, Chattanooga, Louis ville, Mobile and Galveston; Commercial Club, Kansas City; Chamber of Commerce, Quincy, Ill., and Chamber of Commerce and Board of Trade, Tacoma, Wash.; F. C. Boggs, Captain, Corps of Engineers, U. S. A., Gen-eral -Purchasing Officer. Water-works.—Dr. A. S. Priddy, executive officer, Virginia State Epileptic Colony, Lynchburg, Va., will receive bids until July 25 on construction of pipe line; cast-iron four-inch main, 5000 feet. (See "Water-works "

Water-works Equipment, etc. — Johnson City, Tenn., E. E. Ellsworth, treasurer, wants prices on galvanized water pipe, wrough iron corporation cocks, cut-offs, valve boxe

Water-works.-City will receive bids in Au. ist for construction of water-works system; will require one 25-horse-power doublecylinder gasoline engine and one 7x8-inch single-acting triplex pump; plans and specifications being prepared by Oklahoma Engi neering Co., Anadarko, Okla.

Woodworking Machinery.—High Point Cas-ket Co., High Point, N. C., in market for sec-ond-hand 27 to 30-inch double surfacer.

INDUSTRIAL NEWS OF INTEREST

Secures Important Contract.

The Carolina Electrical Co., 110 Fayette-ville St., Raleigh, N. C., has contract to sup-ply electrical equipment for the Nurses' Home and Women's Bldg., Watts Hospital, Durham, N. C. This equipment includes a potential, S. C. This equipment includes special electric-light signal system to be used in the place of bells. The Carolina Electrical Co. has also an order for material for an extension of the Goldsboro trolley system.

A Consulting Geological Engineer.

The office of Frederick G. Clapp, consult-Ing geological engineer, situated at 331 Fourth Ave., Pittsburg, Pa., was established about two years ago. During this time its services have been employed by oil, gas and mining companies, civil engineers, hydroelectric companies and others. The services of Mr. Clapp and his assistants are avail-able for mere consultation or for contracts covering extended periods of time. Field examinations of mineral properties in the South are made a specialty.

Wood and Metal Preservative Paints.

The Rabok Manufacturing Co., St. Louis, manufacturer of wood and metal pre-cative paints, has closed a contract with Rabok Manufacturing Co. of England, which is preparing to erect a factory at Sheffield, England, for the production of Rabok specialties under exclusive manufac-Rabok specialties under exclusive manufac-turing rights from the American company. The English company will manufacture and ell in Great Britain and the colonies exclu sive of Canada. F. H. Mlines is president of the new company.

The Chambers-Morris Company.

The Chambers-Morris Company, civil engineer, 215 Godchaux Bidg., New Orleans, announces that it has accepted the agency of the Trussed Concrete Steel Co. of Detroit the Trussed Concrete Steel Co. of Detroit.

and is doing its engineering work and handling the entire line of Kahn system reinforcements, waterproofing, steel sash, concrete specialties, etc. It is also handling
the Blaw collapsible steel centering, asbestos protected metal and other supplies. The company states that its facilities enables it to engage in any civil engineering work.

At Salt Lake City Also.

In connection with the anno week in which it was stated that the Mine & Smelter Supply Co. maintains large offices and warehouses at Denver, El Paso Mexico City, with executive offices a Mexico City, with executive omees at 42
Broadway, New York, it is also announced
that this company maintains large offices
and warehouses at Salt Lake City. The
Mine & Smelter Supply Co. has recently accepted the agency for the entire Western cepted the agency for the entire Western territory of the United States of the wellknown line of pumps made by the Epping-Carpenter Company, Pittsburg, and com-pressors made by the Bury Compressor Co. of Erie, Pa.

Automatic Car Coupler.

A car coupler operating automatically has been invented by John E. Yeiser of Austin, Tex., who has been developing the device during a period of about 15 years. This coupler opens and closes and locks with a key, which prevents cars uncoupling by ac nt, while the improved uncoupling lever cks the cars, opens and closes the coup-lt is not necessary for switchmen and brakemen to go between cars to couple or uncouple, the device operating on the first impact and leaving no slack. The coupler, it is said, has been endorsed by a number of railroads handling cars in Texas.

Will Be Sole Selling Agent.

The Penn Allen (Pa.) Cement Co. has re-organized with William E. Erdell president organized with William E. Erden president and general manager, and has resumed op-crations at its plant at Bath, Pa. The plant has a capacity of about 75,000 barrels of ce-ment per month, and the William G. Hart-ranft Cement Co., Real Estate Trust Bidg. Philadelphia, has been appointed sole selling agent. Mr. William G. Hartranft of the Hartranft company has been associated with the sale of American Portland cement since the establishment of his company nearly 3

Order for Westinghouse Equipment.

Through its Atlanta office at the Candler Bidg., R. R. Laxton, district manager, the Westinghouse Machine Co., Pittsburg, Pa., has received an order from the Central of Georgia Railway for a 750-horse-power steam turbine, with Westinghouse-LeBlane conturbine, with Westinghouse-LeBlanc densing equipment, for railroad shops at The purchase price was \$20,000 and delivery is to be made in the fall.

Moves Into New Building.

In order to provide more and better facilities for supplying its growing trade for ele ties for supplying its growing trade for elec-trical supplies and equipment, the Baltimore (Md.) Electrical Supply Co. has recently moved into its new building at 309 Calvert St. The building is modern in design and construction, four stories high, and occupies a lot 100x39 feet. It is conveniently arrange to meet the special requirements of the conpany and affords excellent freight facilities. The Baltimore Electrical Supply Co. has large Southern trade and regards this territory as very promising for its activities.

Recent Orders for Berger Products.

Among well-known manufacturers of metal products for various purposes is the Berger Manufacturing Co., main office and plant, Canton, O. This company maintains a South ern sales office in the Rhodes Bldg., Atlanta, and through this office has recently received a number of important orders. These include sidewalk lights for the Masonic Temple ferenville, S. C., and for the Inman Bldg, in Atlanta. It has also sold 100,000 feet of Berger's prong-lock metal studs for the Seminoie Hotel, Jacksonville, Fla., and metal studs and metal laths for an eight-story office building in Oklahoma City. The last-mentioned purchase was made by Pearson & Hancock of Atlanta, who were awarded the ntract for plastering.

Crocker-Wheeler Orders.

Among orders recently booked by the Crocker-Wheeler Company, manufacturer and electrical engineer, Ampere, N. J., are the following: Two 1000-kilowatt engine-type enerators for the Republic Iron & Steel Co. Hazleton plant; one 500-kilowatt engine-type generator for A. M. Byers Company, Pitts-burg, Pa.; one 300-kilowatt engine-type generator for the H. Lauter Company of Indianapolls; one 175-horse-power auxiliary pole motor for the Orford Copper Co. of New Jer-sey; one 1990 K. V. A. engine-type A. C. gen-erator and one 159 K. V. A. engine-type genkatchewan, Canada; one 150 K. V. A. engineerspectator for the Big River Lumber Co. of katchewan, Canada; one 150 K. V. A. en type A. C. generator with exciter for town of Julesburg, Col.; one 300 K. V. belt-type A. C. generator with exciter for the York Card & Paper Co. of Pennsylvania; two 500-kilowatt synchronous motor generator sets for the new Gary plant of the American Sheet & Tinplate Co.

A Remarkable Stevens Showing. At the forty-first annual tournament

the Southern New England Schuetzen Bund at New Britain (July 4, 5 and 6), Stevens rifles and telescopes made a remarkable showing. More than 80 shooters of national reputation competed. The leading event, the target-of-honor match, was won by F. Ross of Springfield. First prize on Ger-ring target was won by J. Hunziger of H ford, Conn., who scored 216 points. Mr. Hun-ziger scored 75 points out of a possible 75 on one ticket, which is a perfect score and said to be the highest obtained at these turna-ments in 41 years. T. R. Geisel was second and F. C. Ross third. Mr. Hunziger and Mr. Geisel used Stevens-Pope rifles equipped with ordinary sights, and Mr. Ross used a Steven Pope rifle equipped with Stevens teles Pope rifle equipped with Stevens telescope. The bull's-eye target was won by Mr. Hunziger, with W. S. Gibson of Springfield. Mass., second, and H. N. Wood of Springfield, third. Mr. Gibson and Mr. Wood used Stevens telescopes. F. L. Smith won first prize on the muzzle-rest target, scoring 146 points out of 150, while W. D. Palmer and F.

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C. Ross tied for second place, each scoring 143. These three contestants used Stevens-Pope rifles equipped with Stevens telescopes. Mrs. Edward Remkus won the ladies' Ger-Mrs. Edward Remkus won the ladles' German ring target, using a Stevens-Pope rifle equipped with a Stevens telescope. It is stated that no telescopes but those of Stevens were used, except on the honor target, in which event the contestants were obliged to use ordinary sights only. The Stevens-Pope rifles and telescopes are manufactured by the J. Stevens Arms & Tool Co., Chiconee Falls, Mass. Chicopee Falls, Mass.

TRADE LITERATURE.

The Hayward Buckets.

Presenting illustrations and descriptive data of Hayward digging buckets is a card data of Injward digging buckets is a carb-being malled by the Hayward Company, 50 Church St., New York. This company manu-factures buckets for various services, its products including orange-peel buckets, clam-shell buckets and buckets of special design.

The Edison Aggregate.

Published in the interest of concrete struction is the Edison Aggregate, a monthly publication. This magazine has been issued for June, and presents descriptive data, to-gether with interesting illustrations of important construction work in which Edison Portland cement has been employed. Edison cement is manufactured by the Edison Port-land Cement Co. of New Village, N. J.

The Universal Bulletin.

Monthly bulletin No. 74, Issued by the Universal Portland Cement Co. of Chicago and Pittsburg, is being distributed for July. This publication contains some timely information regarding Portland cement, and on its front page presents an interesting photograph of the Blackstone Hotel of Chicago, in the construction of which a large amount of Univer-sal Portland cement was used.

The Indicator for June.

The Indicator, a publication by the Otis Elevator Co, of New York and other cities, has been issued for June. This publication is designed to give the coworkers of the Otis Company a more comprehensive knowledge of the elevator industry and to encourage individual effort. It presents a photograph and description of the Blackstone Hotel of Chicago, which is equipped with Otis ele-

"Pioneer" Asphalts.

Literature relating to the use of "Pioneer" asphalt for good roads and other purposes is being distributed by the American Asphalt & Rubber Co., 690-614 Harvester Bidg., Chicago. This product is manufactured by the company referred to and is claimed to make toads dustless, binding the wearing surface and making a firm, elastic and waterproof roadway. Its use for roads is described and roadway. Its use for roads is described and illustrated in a pamphlet which the company has issued, while another pamphlet illus trates and describes the construction of the water-works of Monterey, Mexico, in which "l'ioneer" asphaltum was extensively used. The company has also issued a folder pre-senting a brief description of the develop-ment and usage of wooden-stave pipe, with a photograph showing a wooden-stave pipe line in process of construction.

Road Rollers and Contractor Engines

Announcing that it has always been its policy to never attempt to lessen construction cost of its machinery by lowering the standard of efficiency and durability, the lluber Manufacturing Co., Marion, O., states that its equipment in use for many years may still be found at work in all parts of the country. Among the Huber products are road rollers and contractor engines for all kinds of contract work, plowing, hauling, etc. These are claimed to be constructed as

sash bars and the remaining one in ordinary Coast Line of Connecticut, 5-20s, 89; City sash ours and the remaining one in ordinary wood sash, had only one pane blown out. and this was the one set in the wooden bar, the others remaining intact. The Voltz company has issued a pamphlet illustrating and describing its sash bars in connection with this and other buildings in which they have been subjected to severe tests.

Manufacturing Paint Specialties.

Manufacturing Paint Specialities.

For the purpose of manufacturing only paint specialties for railroad use exclusively, the St. Louis Surfacer & Paint Co. Incorporated in 1903 with W. S. Avis president, H. C. Avis secretary and treasurer and C. E. Koons general manager. With a practical knowledge of the needs of railroads the company's trade has expanded so extensively that from two small rooms it has enlarged to feed the feedback of the medical content of the second of th that from two small rooms it has enlarged its facilities to 13 floors stocked with material and machinery for the manufacture of its products. The main specialties of the company are claimed to successfully meet the demand for durability, both for freight and passenger cars, structural steel bridge work and other railroad needs. Among the products of this company, which are exclusively railroad paints, are coach and cartmetal) surfacer, canvas preserver, canvas roof paint, floor paint, cab enamel, caboose enamel, locomotive enamel, truck enamel, "metal steel" paint, freight-car paints, etc.

roof paint, floor paint, enamel, locomotive enamel, true.

"metal steel" paint, freight-car paints, etc.

Hemming Insulation.

Since the earliest use of electrical equipment a constant search has been maintained for satisfactory insulating materials. Natural products, such as wood and mica, and innumerable manufactured materials have been introduced. Some of them give excellent results, yet the continued use of the older and simpler forms of insulation has encouraged further research and the belief that improvements may be made which will meet with recognition from users of such materials. An insulating material which is claimed to meet all requirements as nearly so possible is known as "Hemit." This product was first manufactured in Germany under the name of "Gummon," but the United on States and Canadian patents, together with certain improvements, the result, it is said, of researches made by Emile Hemming, are now the property of the Hemming, are for of the product, and has recently issued a pampillet maining it and illustrating its application.

NEWS

Uniteu no.

Citizens' National Bank. 100 225

First National Bank. 100 125 145½ Gramers & Mer. Nat. Bank. 40 125 145½ Gramers & Mer. Nat. Bank. 100 125 145½ Gramers & Martional Bank. 100 125 145½ Gramer National Bank. 100 125 145½ Gra

nation about Southern financial matters, items of news about new institutions, dividends declared, securities to be issued, openings for new banks, and general discussions financial subjects bearing upon Southern

Review of the Baltimore Market.

Office Manufacturers' Record,

Office Manufacturers' Record,

Baltimore, Md., July 20.

In the Baltimore stock market during the past week there was a little interest in United Railways securities on account of rumors of a deal for control. In the trading United Railways common sold from 14 to 14%; do, trust certificates from 14½ to 15½, with last sale at 15½; do, incomes from 58 to 59½, with last sale at 58½; do, funding 5s from 81½ to 84, with last sale at 83; do, funding scrip from 81½ to 83; do, 4s from 83¾ to 84¾, with last sale at 84½; Consolidated Gas, Electric Light & Power preferred, 90; do, notes, 97¾ to 108; Senboard 4s, stamped, 83 to 82¾; do, three-year 5s, 99½; do, 10-year 5s, 99½; Consolidated Cotton Duck preferred, 20; Mt. Vernon-Woodberry Cotton Duck 5s, 68½ to 72; G.-B.-S. Brewing 1sts, 41½ to 42.

Bank stock sold as follows: Mechan-

Coast Line of Connecticut, 5-20s, 89; City & Suburban (Washington) 5s, 1011/2; Consolidation Coal, 111; Coal & Iron Railway 5s, 100; Charleston & Western Carolina 5s, 103; Jamison Coal & Coke, George's Creek 5s, 90 to 894/2; Oregon Water-Power & Railway 1st 6s, 104; Carolina Central 4s, 91; Savannah, Florida & Western 6s, 1211/2; Houston Oil preferred, 35; Richmond & Danville Gold 6s, 106; Radinara, Point & Chast. ferred, 35; Richmond & Danville Gold 6s, 106; Baltimore, Sparrows Point & Chesapeake 4½s, 92½; Atlanta Consolidated Street Railway 5s, 104½; Baltimore City 4s, 1957, 100; Fairmont & Clarksburg Traction 5s, 95; German Fire Insurance, 7; Consolidation Coal refunding 4½s, 94; Merchants & Miners' Transportation Co., voting trust, 71½; Maryland & Pensylvania incomes, 60; Florida Southern 4s, 96.

SECURITIES AT BALTIMORE.

Last Quotations for the Week Ended

Railroad Stocks. Par.	Bld. A	sked.
Atlanta & Charlotte100		
Atlantic Coast Line100	112	113
Atlantic Coast of Conn100	21915	230
Georgia Sou. & Fla. 1st Pfd100	92	
Georgia Sou, & Fla. 2d Pfd100		7.3
Maryland & Pennsylvania100	9915	2416
Seaboard Company Common100		21
Seaboard Company 2d Pfd100	40 -	
United Rys. & Elec. Co 50	1414	14%
Bank Stocks.		

Seaboard, 3-year, 5s.
Seaboard & Roanoke 5s.
Suffolk & Carolina 5s.
Virginia Midland 3d 6s.
Virginia Midland 4th 5s.
Virginia Midland 5th 5s.
Virginia Midland 6, M. 5s.
Washington & Vandemere 4½s.
Wost Va. Central 1st 6s.
Will, Col. & Aug. 6s.
Wilmington & Weldon 4s.
Wilmington & Weldon 5s.

kinds of contract work, plowing, hauling, etc. These are claimed to be constructed as well as it is possible, the company realizing that the class of work for which they have been designed offers some of the severest tests to which machinery of this character is subjected. The company has issued a catalogue illustrating and describing the details of the machine's manufacture and adaptability for the work intended.

Voltz Metal Sash Bars.

A prominent Southern manufacturer of metal sash bars is the Volz Manufacturing Co. of St. Joseph, Mo. An interesting ineident in connection with the product of this company is the claim that two insurance companies have decided that plate glass set in these bars may pay only the regular premium for insurance. This judgment, it is said, was fully justified recently during a windstorm in a South Dakota town. A build ing in the town containing 115 lights of plate glass, 114 of which were set in Voltz

Mit. Vernon-Woodberry Cotton Duck 5s. 411½ to 128. 411½ to 42.

States Fidelity, 125; C.B.B.S. Brewing 1sts, 411½ to 42.

Bank stock sold as follows: Mechanics its 42.

Weldon 135; Merchanics its 135; Merchanics its 135; Merchanics its 135; Italian its 135; Ita 102½ ... 102 103 9378 100 92¼ 92½ 109 111½ 101½ 101½ 95 96

Baltimore Electric 5s, Stp	85%	89
'onsolidated Gas 5s	1073	108
'ensolidated Power Notes		
'ensolidation Coal Rfdg, Uss		9418
'on, Gas, Elec. Lt. & P. 4148		89
iBS. Brewing 1st 4s	4136	42
Maryland Telephone 5s	9934	400
Mr. Vernon-Woodb'y Cot. Duck 5s.	7116	72
'nited Elec. Lt. & P. 415s	87	859

SOUTHERN COTTON-MILL STOCKS.

Quotations Furnished by William S. Glenn, Broker, Spartanburg, S. C.,

for Week Ending July	18.	U.,
	Bid. A	sked.
Abbeville Coffon Mills (S C)	***	75
Alken Mfg. Co. (S. C.)	90	***
American Spinning Co. (8. C.) Anderson Cotton Mills (8. C.) Arcadia Mills (8. C.) Arcadia Mills (8. C.) Arcadia Mills (8. C.) Arcadia Mills (8. C.) Augusta Factory (Ga.) Avondale Mills (Ala.) Belton Mills (8. C.) Brandon Mills (8. C.) Brandon Mills (8. C.) Cannon Mfg. Co. (N. C.) Calarrus Cotton Mills (N. C.) Calarrus Cotton Mills (N. C.) Ciliton Mfg. Co. (8. C.) Ciliton Mfg. Co. (8. C.) Ciliton Cotton Mills (8. C.) Courtenay Mfg. Co. (6a.) Drallas Mfg. Co. (6a.) Darlington Mfg. Co. (8. C.) Drayton Mills (8. C.) Easiey Cotton Mills (8. C.) Ernoree Mfg. Co. (8. C.) Enoree Mfg. Co. (8. C.) Gainesville Mills (Ga.) Gainesville Cotton Mills (Ga.) Gainesville Cotton Mills (Ga.) Gainesville Cotton Mills (Ga.) Gelnex Mills (Co.) Gelnex Mills (Co.)	160 53	***
Anderson Cotton Mills (S. C.)	100	55
Arkwright Cotton Mills (S C)	100	103
Augusta Factory (Ga.)	60	65
Avondale Mills (Ala.)	116	
Belton Mills (S. C.)	137	140
Brandon Mills (8, C.)	97	100
Cannon Mfg. Co. (N. C.)	135	***
Cabarrus Cotton Mills (N. C.)	130	135
Chlavela Mes Co. (N. C.) Pid.,	100	180
Clifton Mfg Co (S C)	***	105
Clinton Cotton Mills (S. C.)	120	130
Columbus Mfg. Co. (Ga.)	93	98
Courtenay Mfg. Co. (S. C.)		100
Dallas Mfg, Co. (Ala.)	99	
Darlington Mfg. Co. (S. C.)	80	85
D. E. Converse Co. (S. C.)	410	100
Drayton Mills (8, C.)	95	105
Eagle & Phenix Mills (Ga.)	117	185
Propose Mar Co (8 C)	175 57	60
Energy Mfg Co (S. C.) Pfd	95	100
Enterprise Mfg Co (Gg.)	80	85
Exposition Cotton Mills (Ga.)		200
Gaffney Mfg. Co. (S. C.)	80	85
Gainesville Cotton Mills (Ga.)	75	80
Glenwood Cotton Mills (S. C.)		150
Gluck Mills (S. C.)	100	102
Granby Cot, Mills (S. C.) 1st Pfd.	35	45
Graniteville Mfg. Co. (S. C.)	160 58	165
Greenwood Cotton Mills (S. C.)	114	117
Hartsville Catton Mills (S. C.)	175	114
Henrietta Mills (N. C.)	160	175
Inman Mills (S. C.)	104	108
King Mfg. Co., J. P. (Ga.)	90	93
Lancaster Cotton Mills (S. C.)	130	***
Lancaster Cot. Mills (S. C.) Pfd	97	100
Langley Mfg. Co. (S. C.)	120	127
Laurens Mills (S. C.)	127 160	170
Lamestone Mills (S. C.)	78	85
Lockhort Mills (S. C.) Dfd	99	100
Lorge Cotton Mills (N C) Pfd	95	9734
Marlboro Cotton Mills (S. C.)	80	85
Mills Mfg, Co. (8, C.)		102
Mollohon Mfg, Co. (S. C.)	105	110
Monaghan Mills (S. C.)	109	112
Monarch Cotton Mills (S. C.)	105	107
Newberry Cotton Mills (S. C.)	125	130 150
Norris Cotton Mills (S. C.)	125	130
Olympia Cotton Mills (S. C.)	90	
Orr Cotton Mills (8, C.)		105
Pacolet Mfg, Co. (S. C.)	***	101
Pacolet Mfg. Co. (S. C.) Pfd	99	102
Pelzer Mfg. Co. (S. C.)	175	169
Pledmont Mfg. Co. (8, C.)	175	177
Poe Mig. Co., F. W. (8, C.)	170	180
Silver Mer Co (Ca)	127 71	78
Spartan Mills (S. C.)	131	140
Trion Mfg. Co. (Ga.)	130	140
Tucapau Mills (8, C.)	300	
Union Buffalo (S. C.) 1st Pfd	74	80
Union-Buffalo (S. C.) 2d Pfd	17	25
Victor Mig. Co. (S. C.)	107	125
Warren Mig. Co. (S. C.)	106	110
Washington Mills (Va.)	28	220
Washington Mills (Va.) Pfd	106	110
Whitney Mfg. Co. (S. C.)	122	***
Wiscassett Mills (N. C.)	135	
Woodruff Cotton Mills (S. C.)	125	130
Exposition Cotton Mills (Ga.) éaffney Mg. Co. (S. C.) Galnesville Cotton Mills (Ga.). Glenwood Cotton Mills (Ga.). Glenwood Cotton Mills (S. C.) Granity Cot. Mills (S. C.) Granity Cot. Mills (S. C.) Granity Cot. Mills (S. C.) Greenwood Cotton Mills (S. C.) Greenwood Cotton Mills (S. C.) Greenwood Cotton Mills (S. C.) Hartsville Cotton Mills (S. C.) Lancaster Mills (S. C.) Lancaster Mills (S. C.) Lockhart Mills (S. C.) Lockhart Mills (S. C.) Lockhart Mills (S. C.) Moragban Mills (S. C.) Moragban Mills (S. C.) Moragban Mills (S. C.) Moragban Mills (S. C.) Norris Cotton Mills (S. C.) Norris Cotton Mills (S. C.) Olympia Cotton Mills (S. C.) Pracolet Mfg. Co. (S. C.) Pracolet Mfg. Co. (S. C.) Pracolet Mfg. Co. (S. C.) Predmont Mfg. Co. (S. C.) Predmont Mfg. Co. (S. C.) Predmont Mfg. Co. (S. C.) Sparfan Mills (S. C.) Sparfan Mills (S. C.) Trion Mfg. Co. (S. C.) Sparfan Mills (S. C.) Warren Mfg. Co. (S. C.) Warren Mfg. Co. (S. C.) Warren Mfg. Co. (S. C.) Washington Mills (N. C.) Wiscassett Mills (N. C.) Wiscassett Mills (N. C.) Woodruff Cotton Mills (S. C.)	105	110
Wiscassett Mills (N. C.)	95 120	100 125
wimamston Mins (S. C.)	1.20	1.40

FINANCIAL CORPORATIONS.

Ala., Birmingham.—The Interstate Fire Insurance Co., capital \$590,000, expects to begin business about August 1 with B. H. Cooper, president; W. L. Sullivan, vice-president; John L. Parker, treasurer; Bert Throckmortin, secretary, and Edward D. Smith, attorney.

Ala., Bridgeport.—Official: The J. C. Jacobs Banking Co., capital \$150, individual diabili-ties \$200,000, is to begin business about August 1. This is a private bank.

gust I. This is a private bank.

Ala., Goshen.—A new bank is reported organized with officers thus: President R. E.
L. Mount; vice-president, J. I. F. Law;
cashier, Chas. Howard; assistant cashier,
Alfred Simmons of Troy; directors, G. B.
Howard, Frank Law, Lee Mount, Dr. I. W.
Hamil, J. C. Wilson, Harmon Law, Otis Paul,
J. N. Finlay, J. T. Sanders.

J. N. Finlay, J. T. Sanders.

Ala., Montgomery.—The Union Life & Cusualty Co. is reported incorporated with \$50,000 capital by R. S. Stringfellow and J. B. Sayre. Officers: R. S. Stringfellow, president; S. B. Marks, vice-president; J. Reid Sayre, secretary and treasurer; J. L. Gaston, medical director; directors, R. F. Ligon, Jacques Loeb, J. L. Hall, J. L. Gaston, M. P. Le Grand, W. K. Pelzer, Emanuel Meertlef, F. Stollenwerck and J. M. Baldwin.

Ark., Little Rock.—The Arkansas Insurance.

Ark., Little Rock.—The Arkansas Insurance & Realty Co. has filed articles of incorporation; capital \$25,000. Officers: W. L. Connevey, president: T. L. Cox, first vice-president; C. A. Price, second vice-president; M. II. Brewer, secretary, and John Hammock

Ark., Waldo.—The People's Bank, capital \$25,000, is reported organized with J. M. Davis president, T. W. Callaway vice-president and M. D. Clark cashier. Business is to begin about September I.

Fla., Lakeland.—The First National Bank, capital \$50,000, is reported to have been authorized to begin business; C. W. Deen, president; J. W. Bryant, vice-president, and C. M. Clayton, cashier. This is a conversion of the Citizens' Bank of Lakeland.

Fla., West Palm Beach.—The Currie Investment & Title Guaranty Co., capital \$100,000, has filed articles of incorporation. Geo. G. Currie will be president.

Ga., Uvalde.—The Bank of Uvalde is reported to have made application for a charter; capital \$25,000.

Ky., Lone Oak.—Press dispatches state that temporary organization of the Bank of Lone Oak has been completed with the election of officers thus: E. Futrell, president, and Dr. J. Davis, secretary. The capital will be \$15,000.

Ky., Newport.—The Citizens' Commercial and Savings Bank is reported to have filed articles of incorporation; capital \$50,000; Incorporators, Fred B. Bassman, Phii J. Veith, M. E. Purcell and Otto Wolff.

J. E. Purcei and Otto Woll.
La., Opelousas.—Official: The Union Bank & Trust Co. Incorporated; capital \$100,000.
Joseph P. Saigan is president; Y. Andrepont and O. Dardean, vice-presidents; W. J. Sandoz, trust officer. Business is to begin about January 1, 1911.

La., Elton.—The People's Bank of Elton is reported to have begun business with directors thus: President, Dr. S. A. Pennington; vice-president, Wilber Putnam; cashier, E. S. Hart; Arthur Hollins of the Lake Charles National Bank, J. W. Lyman, Eunice, La.; G. W. Aylsworth and M. D. Southerland, Elton.

Md., Havre de Grace.—The Havre de Grace Banking & Trust Co. has begun business with \$25,000 capital and \$12,500 surplus. Offleers: Isaac Hecht, president; Murray Vandiver, first vice-president; Joseph C. Parker, second vice-president, and A. Handin Carver, secretary and treasurer.

Miss., Ethel.—The Bank of Ethel, capital \$30,000, incorporated by W. R. Pope, J. R. Riley, W. H. Hunter and others.

Riley, W. H. Hunter and others.

Mo., Joplin.—Official; The Missouri Miners'
Casualty Co. incorporated; capital \$200,000;
surplus \$75,000; incorporators, C. B. Guinn.
S. K. Orth, C. E. Matthews, Thos. McCroskey, W. R. Caulkins, Ben C. Taylor, Chas.
Schifferdecker, H. H. Cregg, D. D. Hoag, H.
C. Murphy, F. A. Wilber, John F. Wise,
Fudd M. Robinson and Jerome B. Grigg,
Business is to begin about September 1. A
previous Item gave the address as Jasper, Mo

S. C., Anderson, — The Anderson County Loan & Investment Co. is to begin business August 6 with E. P. Vandiver, president; J. N. Bleckley, vice-president; John Frank, secretary-freasurer.

S. C., Columbia.—The Richland Building and Loan Association is reported chartered with \$200,000 capital. Officers: Thos. S. Bryan, president: T. B. Aughtry, vice-presi dent; William Barnwell, secretary and treasurer; W. D. Melton, solicitor.

dent; William Barnweit, secretary and treasurer; W. D. Melron, solicitor.

Tenn., Campbellsville.—The Campbellsville Pank, capital \$15,000, is reported incorporated by J. J. Zuccarello, R. N. Hayes, L. E. Farisley, S. T. Collins and Clarence Upshaw.

Tenn., Theta.—The Theta State Bank of Maury County, according to press reports, expects to begin business about September 1, with B. P. Dalton president, J. E. Trimble vice-president, J. S. Shapiro second vice-president and J. M. Fitzgerald cashier.

Tex., Crantills Gap.—The First Guaranty State Bank, capital \$10,000, is reported to have begun business with officers thus; G. O. Bronstad, president; W. T. Tergerson, first vice-president; B. W. Ammons, second vicepresident; O. A. Bronstad, cashier.

Tex., Del Rio.—The new State Bank & Trust Co., capital \$75,000, is reported to have elected directors thus: President, Will White-head; active vice-president, Sidney Turner; vice-president, John J. Foster; cashier, O. B. Franks; J. C. Clarkson, T. J. Ellis and James O. Taylor.

Tex., Jermyn.—The First State Bank of Jermyn, capital \$15,000, is reported organized by W. F. Suddeth of Abilene and others. Directors: Oliver Loving, president; John W. Carter, first vice-president; Will F. Suddeth, cashier: William Hannah, E. Hughes, W. H. Featherstone and W. P. Stuart.

Tex., Nordheim. — Official: The Nordheim State Bank is to be chartered with \$10,000 capital. Directors: H. J. Strunk, president; C. W. Gohmert, vice-president; F. O. A. Ladrer, cashier; Geo. Frende, Geo. Bode, M. G. Mueller and Aug. Tevier. Business is to begin August I.

Tex., Port Lavaca.—The Calhoun County Building and Loan Association is reported organized with directors thus; A. D. Gibson, W. H. Mallory, J. B. Moore, E. F. Ehlinger and J. I. Cochran; A. D. Gibson, chairman.

Tex., Prairie Hill.—The Guaranty State Bank, capital \$10,000, is reported incorporated by T. N. Moody, J. B. Kirkpatrick, R. W. Henderson and others.

W. Henderson and others.

Tex., San Antonio.—Official: The Security Title & Guaranty Co., 291 East Houston St., began business July 1 with \$160,090 capital. Directors: Dr. R. M. Howe, president, and S. A. Ceffman, both of San Antonio, Tex.; J. A. Witz, Indianapolis, Ind.; J. H. Mitchell, Cincinnati, O.; H. R. Follman, Lincoln, Neb., and E. J. Albert, St. Louis, Mo.

Tex., Sterling City.—The First National Bank of Sterling City has been authorized to begin business; capital \$60,000; W. L. Foster, president, and J. S. Cole, cashier.

Tex., Waco.—The Peerless Fire Insurance Co. of Waco is reported organized with \$500, 000 capital and \$100,000 surplus. C. C. Beckley is acting secretary.

Va., Montvale.—Official: The Bedford County Bank chartered; capital \$16,000. Directors: S. H. Price, president; N. C. Luck and R. W. Peery, vice-presidents; R. A. Gilliam, cashier and secretary; C. C. Noell, H. A. Garrett, G. M. Arrington, L. H. Rieley, B. H. Early, W. W. Hogan and T. W. Wilken. Business is to begin August 1.

NEW SECURITIES.

Ala., Hartselle.—August 8 an election is to be held to vote on \$28,000 of 6 per cent. 26-year water-works and electric-light bonds. Address J. H. Corsbi, Mayor.

Ala., Linden.—An election will be held in Marengo county in September, it is reported, to vote on \$200,000 of road-improvement bonds.

Ala., Montgomery.—July 25 an election is to be held to vote on \$25,000 of water and sewer bonds.

Ala., Montgomery.—Official: City is offering at private sale \$100,000 of 5 per cent. Solycar bonds for funding floating debts: denomination \$1000. Gaston Gunter is Mayor. Ala., Opelika.—Reported voted: \$85,000 of

bonds to take over public utilities.

Fla., Tarpon Springs.—Bids will be received until August 1 by the Board of Town Trustees, Dr. J. E. Douglas, chairman, for \$15,000

of 6 per cent. 10-30-year bonds.

Fla., White Springs.—Official: Election to vote on \$29,000 of water-works and sewerage bonds defeated. As soon as time expires, according to law, another election will be called, provision also being made for light plant, street and school building. Amount will probably be \$45,000. G. S. Mobley is Mayor.

Ga., Boston.—Bids will be received by F. C. Jones, clerk of the Board of Education, until August 1 for \$12,000 of 5 per cent. 20-year school bonds.

Ga., Carlton.—Reported voted: \$5000 of school-building bonds.

Ga., Dalton.—Bids will be received until 7 P. M. August 10 for \$125,000 of 5 per cent. municipal improvement bonds. Address Paul B. Trammell, Mayor.

Ga., Elberton.—Press dispatches say that \$25,000 of street-improvement bonds are under

Ga., Rockmart.—August 10 an election is to be held to vote on \$25,000 of water-works and \$10,000 of sewer 5 per cent. bonds. I. F. Mundy is Mayor, and P. M. Edwards, Clerk.

Ga., Toccoa.—August 9 an election is to be held to vote on \$19,000 of 5 per cent. 30-year sewerage bonds. John W. Owen is Mayor.

Md., Elkton.—Reported defeated: \$75,000 of water, light and sewer bonds.

Miss., Amory.—Official: Bids will be received until 8 P. M. August 2 by J. P. Johnston, Mayor, for \$18,000 of 5 per cent, bonds for purchase of electric-light plant.

Miss., Belen.—Reported that Quitman county proposes issuing \$35,000 of courthouse and jail bonds. Address Board of Supervisors. I. C. Denton is clerk.

Miss., Brandon.—Reported that \$20,000 of Rankin county road bonds are to be issued.

Miss., Ellisville, — J. T. Taylor, Mayor, writes regarding proposed bond issue : "Nothing doing yet."

Miss., Meridian.—Reported that ordinances have been prepared providing for the issuing and sale of \$50,000 of drainage, \$10,000 of sever, \$15,000 of fire-equipment and \$100,000 of school 6 per cent. 30-year bonds. J. W. Parker is Mayor, and C. W. O'Leary, Clerk.

Miss., Tupelo.—The People's Bank & Trust Co. of Tupelo is reported to have purchased the \$100,001 of 5½ per cent. Lee county road Miss., Wiggins.—Press reports state that It is proposed to issue \$7500 of 6 per cent. street bonds.

Mo., Dexter.—An election will probably be held the middle of August to vote on between \$40,000 and \$50,000 of water-works and sewer bonds.

Mo.; Malden. — Reported that \$30,000 of water and light improvement bonds were recently voted.

Mo., Slater. — Reported voted: \$27,500 of water and light bonds.

Mo., Windsor.—Reported voted: \$55,000 of water and sewer bonds.

N. C., Brevard.—Reports state that an election will probably be held in Transylvania county on August 2 to vote on \$10,000 of bonds in aid of the Greenville & Knoxville Railroad.

N. C., Elizabeth City.—Reports state that all bids received for the \$60,000 of 5 per cent. municipal bonds were rejected and new bids will be opened August 10. Z. Fearing is Mayor.

N. C., Franklinton.—Bids will be received by B. T. Green, secretary of Franklinton township, until 3 P. M. August 2 for \$30,000 of 5 per cent, 20-year road bonds.

N. C., Southern Pines.—J. S. Young of Vermont is reported to have purchased at 105:05 the \$20,000 of 6 per cent. 20-year refunding sewerage and water system bonds.

N. C., Town Creek.—August 16 an election is to be held, it is reported, to vote on \$15,000 of road bonds. W. H. Walker is register. Address Board of County Commissioners, Southport. N. C.

Okla., Hastings.—Reported that an election is to be held to vote on bonds for waterworks system.

Okla., Yukon.—Official: Bids will be received at any time for \$40,000 of 6 per cent. 25-year water-works and sewer bonds voted June 27, 1910; denomination \$1000. H. T. Burson is Mayor.

S. C., Darlington.—Reported that a petition has been circulated among the residents of the town ask ng that an election be held to vote on \$20,000 of bonds for right of way for new railroad.

S. C., Elloree,—Reported that on July 22 an election will be held to vote on \$5000 of electric-light bonds.

S. C., Easiey.—Reported that W. M. Hagood, chairman Board of Commissioners, will receive hids at any time for \$29,500 of 5 per cent. water and light bonds.

S. C., Flerence.—J. Willard Ragsdale, president of the Farmers and Mechanics' Bank of Florence, is reported to have purchased at 101 the \$29,000 of 5 per cent. 30-year school-building bends of Florence County School District No. 16.

S. C., Heath Springs—Bids will be received until August 1 by F. M. Mobley, secretary Board of Trustees of Heath Springs School district No. 38, Lancaster county, for \$5000 of school bonds.

S. C., McColl.—Official: Bids will be opened August 15 by L. M. Morrison, clerk, for \$20,-000 of 5 per cent. 20-year bonds for purchase of site and erection of school building; denomination \$1000; dated September 1, 1910.

S. C., Pageland.—Reported that \$500 of 6 per cent. 30 year school d'strict building bonds have been purchased by H. T. Holtz & Co. of Chicago.

S. C., Paxville.—An official letter says that the \$12,000 of 5½ per cent. school-building bonds offered July 15 were not sold; bonds mature 1940. Address Davis & Weinberg, Manning, S. C.

Tenn., St. Elmo.—Steps are being taken, according to press dispatches, to issue \$100,000 of public improvement bonds. W. S. Griscom is Mayor.

Tex., Aransas Pass.—Reported voted: \$20, 000 of Aransas Pass independent school dis trict bonds.

Tex., Austin.—The Attorney-General has approved the following securities: \$15,000 of fire apparatus and \$3500 of sewer 5 per cent. bonds of Texarkana; \$12,500 of 5 per cent. Hill county common school district bonds of district 9°; \$100,600 of 5 per cent. series No. 5 Temple school Luitoing bonds; \$6000 of 4 per cent. 90-20-year Katacs county bridge refunding bonds; \$1500 of district No. 18, \$2000 of district No. 19 and \$1500 of district No. 20 Kandail county common school district bonds; \$750 of 5 per cent. 20-year Palo Pinto common school district No. 19 bonds: \$7000 of 5 per cent. 10-40-year Iredel independent school district bonds; \$150,000 of 5 per cent. 90-year bonds of Fort Bend county road district No. 1; \$3000 of 3 per cent. Fort Bend common school district bonds; \$1000 of 5 per cent. Rusk county common school district bonds; \$1000 of 5 per cent. Rusk county common school district bonds.

Va., Big Stone Gap.—Reported that on November 22 an election is to be held to vote on \$70,000 of Wise county road bonds.

Tex., Bryan.—Official: Bids will be recelved until noon August 10 for \$33,000 of 4 per cent. 20-40-year water, light and sewerplant bonds, dated May 1, 1899; denomination \$1000. Address J. T. Maloney, Mayor.

Tex., Mission.—Bids will be received until August 1 by G. L. Anderson, secretary Board of Education, for \$12,000 of 5 per cent. 10-40year independent school district building bonds.

Tex., Seguin.—Official: Propositions received at once for the purchase of \$15,000 of school and \$25,000 of street 4½ per cent. 10-10year bonds. Address the Mayor.

Tex., Sherman.—Reported that the State National Bank of Denison, Tex., has purchased at par and accrued interest \$250,000 of 492 per cent. 40-year bonds of road district No. 1, Grayson county.

Va., Clifton Forge.—Reported that an ordinance has been prepared providing for \$65,699 of sewer, sidewalk, bridge, street and other naprovement bonds.

Va., East Radford.—Bids will be received until July 28 by R. J. Noell, chairman finance committee, for \$5.000 of 5 per cent. 30-year school, street and refunding bonds.

Va., Lexington.—The sale of \$30,000 of 4 per cent, road and street-improvement bonds is reported ordered by the Town Council. Address The Mayor.

Va., Portsmouth.—Bids will be received until noon August 3 for \$75,000 of 5 per cent. 20year bonds of Norfolk county for purchase of toll roads and bridges. Address Board of Supervisors, Alvah H. Martin, clerk.

Va., Wise.—Reported that an election is to be held November 22 to vote on \$700,000 of Wise county road bonds.

W. Va., Beckley.—Bids will be received by M. C. Brackman, City Recorder, until 6 P. M. July 28 for \$60,000 of 5 per cent, 29-39-year city bonds.

W. Va., Big Sandy.—J. R. Davis, secretary Board of Education of Big Sandy district, who is receiving bids until 2 P. M. August 1 for \$30,000 of 5 per cent. 10-34-year school bonds, should be addressed at Clendenin, W. Va., and not Big Sandy, as previously reported. The bonds are of \$1000 denomination each; dated September 1, 1919.

W. Va. Hamlin - Lincoln county will, it is reported, hold an election in November to vote on \$199,000 of courthouse bonds.

W. Va., Keyser.—Official: Voted—\$30,000 of 5½ per cent. 10-24-year water-improvement bonds; denomination \$100 and multiples; dated September 1, 1910, Address R. A. Welch.

At Dalton, Ga., bids will be received until 7 P. M. August 10 for \$125,000 of 5 per cent. city bonds. Further particulars will be found in the advertising columns.

At Bryan, Tex., bids will be received until noon August 19 for \$33,000 of 4 per cent, 49year water, light and sewer-plant bonds. Further particulars will be found in the advertising columns.

At Franklinton, N. C., bids will be received until 3 P. M. August 2 for \$30,000 of 5 per cent. 30-year Franklinton township road bonds. Further particulars will be found in the advertising columns.

At Portsmouth, Va., bids will be received until noon August 9 for \$75,000 of 5 per cent. Norfolk county bonds for purchase of toll roads and toll bridges. Further particulars will be found in the advertising columns.

FINANCIAL NOTES.

The Farmers and Merchants' Bank of Little Mountain, S. C., acording to a dispatch, will increase its capital from \$10,000 to \$25,000.

The Bankers' Trust Co. of Houston, Tex. is reported to have voted to increase its capital from \$500,000 to \$1,000,000.

The Bank of Cotton Plant at Cotton Plant, Ark., has, according to a report, voted to change its name to the Cotton Plant Bank & Trust Co. and increase its capital from \$30,000 to \$50,000.

The Planters' Bank of Cotton Plant, Ark. is reported to have increased its capital from \$25,000 to \$75,000.

The twelfth annual convention of the South Carolina Fire Insurance Agents' Association was held at Columbia, S. C., July 14 and 15.

The Stewart Title Guaranty Co., with headquarters at Galveston, Tex., will, it is reported, open a branch at Dallas.

The Joplin Trust Co. of Joplin, Mo., according to press dispatches, has increased its capital from \$50,000 to \$250,000.

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